

Raptor Pharmaceutical Corp
Form POS AM
November 23, 2010

As filed with the Securities and Exchange Commission on November 23, 2010

Registration Statement File No. 333-162374

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1 TO
FORM S-3
ON
FORM S-1

REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

RAPTOR PHARMACEUTICAL CORP.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

2834
(Primary Standard Industrial
Classification Code Number)

86-0883978
(I.R.S. Employer
Identification
Number)

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(Address, including zip code, and telephone number, including area code,

of registrant's principal executive offices)

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APPROXIMATE DATE OF COMMENCEMENT OF PROPOSED SALE TO THE PUBLIC: From time to time after the effective date of this registration statement, as determined by the selling stockholders.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer," and "smaller reporting company" in Rule 12b-2 of the Exchange Act (Check one):

Large accelerated Accelerated filer
filer
Non-accelerated Smaller reporting
filer company

This filing constitutes a post-effective amendment to the registration statement on Form S-3 (File No. 333-162374), filed with the Securities and Exchange Commission, or the Commission or SEC, on October 7, 2009, as amended by that certain Pre-Effective Amendment No. 1 to Form S-3, filed with the Commission on October 9, 2009, which was declared effective on November 5, 2009, or collectively, the Registration Statement. This post-effective amendment shall hereafter become effective in accordance with Section 8(c) of the Securities Act of 1933, as amended. If securities previously registered under the Registration Statement were sold before the effective date of this post-effective amendment to the Registration Statement, the amount of previously registered securities so sold will not

be included in the prospectus hereunder.

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(A) OF THE SECURITIES ACT OF 1933, AS AMENDED, OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(A), SHALL DETERMINE.

Explanatory Note

We initially registered on Form S-3 (File No. 333-162374), filed with the Commission on October 7, 2009, as amended by that certain Pre-Effective Amendment No. 1 to Form S-3, filed with the Commission on October 9, 2009, or collectively, the Registration Statement, the offering for sale of 3,747,558 units, consisting of (i) 3,747,558 shares of our common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), exercisable, subject to their terms, at \$2.45 per share, during the period beginning on June 20, 2010 and ending on December 22, 2014, or the Series A Warrants, and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), exercisable, subject to their terms, at \$2.45 per share, during the period beginning on June 20, 2010 and ending on June 22, 2011, or the Series B Warrants. Due to the late filing of our Current Report on Form 8-K with respect to the voting results of our 2010 Annual Meeting of Stockholders, under applicable Commission rules, we do not qualify for the use of a registration statement on Form S-3. To assure that the shares of our common stock issuable upon the exercise of the Series A Warrants and the Series B Warrants may be sold pursuant to an effective registration statement, we have filed this post-effective amendment to the Registration Statement on Form S-1. This Post-Effective Amendment No. 1 to the Registration Statement on Form S-1 is also being filed to, among other things, include audited financial statements for our fiscal year ended August 31, 2010 and to reflect additional information disclosed in our Annual Report on Form 10-K for our fiscal year ended August 31, 2010, filed with the Commission on November 22, 2010.

All filing fees payable in connection with the initial filing of the Registration Statement were previously paid at the time of the initial filing of the Registration Statement.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale of these securities is not permitted.

Subject to Completion, Dated November 23, 2010

PROSPECTUS

3,747,558 SHARES OF COMMON STOCK
SERIES A WARRANTS TO PURCHASE UP TO 1,873,779 SHARES OF COMMON STOCK
SERIES B WARRANTS TO PURCHASE UP TO 1,873,779 SHARES OF COMMON STOCK

This prospectus relates to the offering for sale of 3,747,558 units, consisting of (i) 3,747,558 shares of our common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), exercisable, subject to its terms, at \$2.45 per share, during the period beginning on June 20, 2010 and ending on December 22, 2014, or the Series A Warrants, and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), exercisable, subject to its terms, at \$2.45 per share, during the period beginning on June 20, 2010 and ending on June 22, 2011, or the Series B Warrants.

On December 22, 2009, we issued 3,747,558 units to investors in this offering. The purchase price for each unit purchased in this offering was \$2.00. Each unit consisted of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. Units were not issued or certificated. The shares of our common stock and the Series A Warrants and Series B Warrants comprising the units were issued separately.

We retained Ladenburg Thalmann & Co. Inc. as our exclusive placement agent to use its best efforts to solicit offers to purchase our securities in this offering. In addition to the placement agent's fee below, we also issued the placement agent warrants to purchase up to an aggregate of 74,951 shares of our common stock at an exercise price of \$2.50 per share. See "Plan of Distribution" beginning on page 90 of this prospectus for more information regarding these arrangements.

Our common stock is registered under Section 12(g) of the Securities Exchange Act of 1934, as amended, and listed on the NASDAQ Capital Market under the symbol "RPTP." On November 22, 2010, the last reported sale price for our common stock as reported on the NASDAQ Capital Market was \$3.59 per share.

INVESTING IN OUR COMMON STOCK INVOLVES SUBSTANTIAL RISKS. SEE THE SECTION TITLED "RISK FACTORS" BEGINNING ON PAGE 9 OF THIS PROSPECTUS TO READ ABOUT FACTORS YOU

SHOULD CONSIDER BEFORE BUYING SHARES OF OUR COMMON STOCK.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is _____, 2010.

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PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus. This summary does not contain all of the information that you should consider before making an investment decision with respect to our securities. You should read this entire prospectus, including all documents incorporated by reference, carefully, especially the “Risk Factors” section beginning on page 9 of this prospectus and our financial statements and related notes contained in this prospectus before making an investment decision with respect to our securities. Please see the section titled, “Where You Can Find More Information,” beginning on page 97 of this prospectus. Unless the context indicates otherwise, references to “Raptor,” “the Company,” “we,” “us,” or “our,” refers to Raptor Pharmaceutical Corp. and our wholly-owned subsidiaries, Raptor Pharmaceuticals Corp., Raptor Discoveries Inc., Raptor Therapeutics Inc. and Raptor Pharmaceuticals Europe BV. On August 30, 2010, our former wholly owned subsidiary, TPTX, Inc. was merged into Raptor Therapeutics Inc.

You should rely only on the information contained in this prospectus or any related prospectus supplement, including the content of all documents incorporated by reference into the registration statement of which this prospectus forms a part. We have not authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. The information contained in this prospectus or incorporated by reference herein is accurate only on the date of this prospectus. Our business, financial condition, results of operations and prospects may have changed since such date. Other than as required under the federal securities laws, we undertake no obligation to publicly update or revise such information, whether as a result of new information, future events or any other reason.

Some of the industry data contained in this prospectus is derived from data from various third-party sources. We have not independently verified any of this information and cannot assure you of its accuracy or completeness. While we are not aware of any misstatements regarding any industry data presented herein, such data is subject to change based on various factors, including those discussed under the “Risk Factors” section beginning on page 9 of this prospectus.

Unless otherwise expressly provided in this prospectus, our number of shares of common stock provided herein are on a post-merger basis calculated as of after the 2009 Merger (as defined below).

Overview

We believe that we are building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Our product portfolio includes both candidates from our proprietary drug targeting platforms and in-licensed and acquired product candidates.

Our current pipeline includes three clinical development programs which we are actively developing. We also have three other clinical-stage product candidates, for which we are seeking business development partners but are not actively developing, and we have four preclinical product candidates we are developing, three of which are based upon our proprietary drug-targeting platforms.

Clinical Development Programs

Our three active clinical development programs are based on an existing therapeutic that we are reformulating for potential improvement in safety and/or efficacy and for application in new disease indications. These clinical development programs include the following:

- DR Cysteamine for the potential treatment of nephropathic cystinosis, or cystinosis, a rare genetic disorder;
- DR Cysteamine for the potential treatment of non-alcoholic steatohepatitis, or NASH, a metabolic disorder of the liver; and
- DR Cysteamine for the potential treatment of Huntington's Disease, or HD.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners:

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- Convivia™ for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with aldehyde dehydrogenase, or ALDH2 deficiency, an inherited metabolic disorder; and
- Tezampanel and NGX426, non-opioids for the potential treatment of migraine, acute pain, and chronic pain.

Preclinical Product Candidates

Our preclinical platforms consist of targeted therapeutics, which we are developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer. These preclinical platforms include the following:

- Our receptor-associated protein, or RAP, platform consists of: HepTide™ for the potential treatment of primary liver cancer and other liver diseases; and NeuroTrans™ to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.
- Our mesoderm development protein, or Mesd, platform consists of WntTide™ for the potential treatment of breast cancer.

We are also examining our glutamate receptor antagonists, tezampanel and NGX426, for the potential treatment of thrombosis disorder.

Future Activities

Over the next 12 months, we plan to conduct research and development activities based upon our DR Cysteamine clinical programs and continued development of our preclinical product candidates. We also plan to seek business development partners for our Convivia™ product candidate and Tezampanel and NGX426. We may also develop future in-licensed technologies and acquired technologies. A brief summary of our primary objectives in the next 12 months for our research and development activities is provided in the section titled “Description of Business.” There can be no assurances that our research and development activities will be successful. In addition, if we do not raise additional funds, we may not be able to continue as a going concern.

Strategic Acquisitions

Reverse Merger with Raptor Pharmaceuticals Corp., or RPC

In July 2009, we, and our then wholly-owned subsidiary ECP Acquisition, Inc., a Delaware corporation, or merger sub, entered into an Agreement and Plan of Merger and Reorganization, or the 2009 Merger Agreement, with Raptor Pharmaceuticals Corp., a Delaware corporation, or RPC. On September 29, 2009, on the terms and subject to the conditions set forth in the 2009 Merger Agreement, merger sub was merged with and into RPC and RPC survived such merger as our wholly-owned subsidiary. This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock and

changed our corporate name to “Raptor Pharmaceutical Corp.”

As of immediately following the effective time of the 2009 Merger, RPC’s stockholders (as of immediately prior to such 2009 Merger) owned approximately 95% of our outstanding common stock and our stockholders (as of immediately prior to such 2009 Merger) owned approximately 5% of our outstanding common stock, in each case without taking into account any of our or RPC’s shares of common stock, respectively, that were issuable pursuant to outstanding options or warrants of ours or RPC, respectively, outstanding as of the effective time of the 2009 Merger. Although RPC became our wholly-owned subsidiary, RPC was the “accounting acquirer” in the 2009 Merger and its board of directors and officers manage and operate the combined company. Our common stock currently trades on the NASDAQ Capital Market under the ticker symbol, “RPTP.”

Purchase of Convivia™

In October 2007, prior to the 2009 Merger, RPC purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. RPC hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as the President of its clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what we now call Convivia™, RPC issued to Convivia 46,625 shares of our common stock, an additional 46,625 shares of our common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 8,742 shares of our common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of our common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of our execution of a formulation agreement for manufacturing Convivia™ with Patheon. In March 2008, RPC issued to Mr. Daley 23,312 shares of our common stock pursuant to the Convivia purchase agreement as a result of the milestone of our execution of an agreement to supply us with the active pharmaceutical ingredient for Convivia™ and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, RPC issued to Mr. Daley 23,312 shares of our common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone. In July 2010, we issued 11,656 shares of our restricted common stock valued at \$35,551 and paid a \$10,000 cash bonus to Mr. Daley as a result of the execution of the license agreement with Uni Pharma for the development of Convivia™ in Taiwan.

Purchase of DR Cysteamine

In December 2007, prior to the 2009 Merger, through a merger between Encode Pharmaceuticals, Inc., or Encode, and Raptor Therapeutics, RPC purchased certain assets, including the clinical development and commercial rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, RPC issued 802,946 shares of its common stock to the stockholders of Encode, or Encode Stockholders, options, or Encode Options, to purchase up to, in the aggregate, 83,325 shares of its common stock to the optionholders of Encode, or Encode Optionholders, and warrants, or Encode Warrants, to purchase up to, in the aggregate, 256,034 shares of its common stock to the warrantholders of Encode, or Encode Warrantholders, and together with the Encode Stockholders and Encode Optionholders, referred to herein collectively as the Encode Securityholders, as of the date of such agreement. The Encode Securityholders are eligible to receive up to an additional 559,496 shares of our common stock, Encode Options and Encode Warrants to purchase our common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, we received the exclusive worldwide license to DR Cysteamine, referred to herein as the License Agreement, developed by clinical scientists at the University of California at San Diego, or UCSD, School of Medicine. In consideration of the grant of the license, we are obligated to pay an annual maintenance fee of \$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we are obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a

percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated, among other things, to spend annually at least \$200,000 for the development of products (which we satisfied, as of August 31, 2010 and 2009 by spending approximately \$6.2 million and \$4.1 million, respectively, on such programs) pursuant to the License Agreement. To-date, we have accrued \$470,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Company History

Corporate Structure

We were initially incorporated in Nevada on July 29, 1997 as Axonyx Inc. In October 2006, Axonyx Inc. and its then-wholly-owned subsidiary completed a reverse merger, business combination with TorreyPines Therapeutics, Inc., reincorporated in Delaware and changed our corporate name to “TorreyPines Therapeutics, Inc.”

On September 29, 2009, we and a wholly-owned subsidiary completed a reverse merger, business combination with RPC pursuant to which RPC became our wholly-owned subsidiary. Immediately prior to such time, we changed our corporate name to “Raptor Pharmaceutical Corp.” After such merger, our common stock began trading on the NASDAQ Capital Market and currently trades under the ticker symbol “RPTP.” This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock.

RPC was incorporated in the State of Nevada on April 1, 2002 under the name of Highland Clan Creations Corp., or HCCC. On June 9, 2006, HCCC merged with RPC which was incorporated on May 5, 2006 in Delaware. As a result, HCCC was reincorporated from the State of Nevada to the State of Delaware and changed its corporate name to “RPC”. HCCC was a publicly traded company quoted on the OTC Bulletin Board and upon such merger, its common stock traded on the OTC Bulletin Board under the ticker “RPTP.” Our principal executive office is located at 9 Commercial Blvd., Suite 200, Novato, CA 94949. Our phone number is (415) 382-8111.

On May 25, 2006, RPC acquired 100% of the outstanding capital stock of Raptor Discoveries (f/k/a Raptor Pharmaceutical Inc.) (incorporated in Delaware on September 8, 2005), a development-stage research and development company and on June 9, 2006, RPC disposed of its former wholly-owned subsidiary, Bodysentials Health & Beauty Inc., which sold nutritional milkshakes and drinks on the Internet. On August 1, 2007, RPC formed Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) as its wholly-owned subsidiary for the purpose of developing clinical-stage drug product candidates through to commercialization.

Financing History of RPC

Initial Investors

On May 25, 2006, in exchange for all of the outstanding common stock of Raptor Pharmaceutical Inc. (now known as Raptor Discoveries Inc.), RPC issued 1,864,987 shares of our common stock to the-then Raptor Pharmaceutical Inc. stockholders including 699,370 shares of our common stock to each of Christopher M. Starr, Ph.D., and Todd C. Zankel, Ph.D., our Chief Executive Officer and Chief Scientific Officer, respectively, 233,123 shares of our common stock to Erich Sager, a member of our board of directors and 233,123 shares of our common stock to an unrelated third party. These initial stockholders of Raptor Pharmaceutical Inc. purchased common stock of Raptor Pharmaceutical Inc. when it was a privately held company for the following amounts of proceeds: Dr. Starr \$5,000;

Dr. Zankel \$5,000; Mr. Sager \$100,000 and the unrelated third party \$200,000.

\$5 Million Financing and the 2006 Reverse Merger

Pursuant to an agreement dated March 8, 2006, with HCCC, on May 25, 2006, RPC closed a \$5 million financing concurrent with a reverse merger. As part of that agreement, HCCC loaned RPC \$0.2 million to be repaid with accrued interest upon the earlier of six months or the closing of the financing. Also, the agreement stated that pending the closing of at least a \$3.5 million financing, HCCC would be obligated to issue 186,499 units as fees to a placement agent and \$30,000 in commissions to an investment broker. In the financing HCCC sold 1,942,695 units of RPC at \$2.57 per unit. Each such unit consisted of one share of our common stock and one common stock purchase warrant exercisable for one share of our common stock at \$2.57 per share. The warrants were exercisable for 18 months and expired on November 25, 2007. Gross proceeds from the financing were \$5 million and net proceeds after the repayment of the \$0.2 million loan plus interest and the deduction of commissions and legal fees totaled approximately \$4.6 million. Prior to the warrants expiring, RPC received \$3,895,000 in gross proceeds from the exercise of warrants in exchange for 1,513,359 shares of our common stock.

Issuance of Common Stock Pursuant to Stock Option Exercises

Since inception, we and RPC have received \$72,722 from the exercise of stock options resulting in the issuance of 41,262 shares of common stock. Our common stock outstanding as of November 5, 2010 was 30,213,378 shares.

RPC's 2008 and 2009 Private Placements and Warrant Exchange

During May and June 2008, prior to the 2009 Merger, RPC, issued an aggregate of 4,662,468 units of its securities, each unit comprised of one share of our common stock and one warrant to purchase one half of one share of our common stock, at a unit purchase price of \$2.15 per unit, in a private placement with various accredited investors. The warrants, exercisable for two years from closing of such private placement, as initially issued, entitled such investors to purchase up to an aggregate of 2,331,234 shares of RPC's common stock at an exercise price of \$3.22 per share during the first year and \$3.86 per share during the second year. In connection with this private placement, RPC issued placement agents warrants to purchase in the aggregate 489,559 shares of our common stock at an exercise price of \$2.36 per share for a five year term and it paid to such placement agents cash fees totaling \$700,000. Such placement agent warrants contained a cashless (net exercise) feature that allows its holders, under certain circumstances, to exercise such warrants without making any cash payment. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 438,890 shares of our common stock and was paid cash commissions of \$627,550. Erich Sager, one of our board members, serves on the board of directors of Limetree Capital and is a founding partner thereof.

In July 2009, prior to the 2009 Merger, RPC closed a warrant exchange offer with those investor-warrant holders who were holders of the warrants to purchase its common stock issued in connection with its May and June 2008 private placement, as described above, of the right to exchange such warrants and subscribe for new warrants to purchase shares of RPC's common stock at an exercise price of \$1.29 per share (to the extent such new warrants were exercised (in whole or in part) on or before July 17, 2009). Pursuant to such warrant exchange, new warrants were exercised for an aggregate amount of 2,031,670 shares of our common stock which resulted in aggregate proceeds to RPC of \$2,614,500.

In August 2009, prior to the 2009 Merger, RPC issued an aggregate of 1,738,226 units of our securities, each unit comprised of one share of our common stock and one warrant to purchase one half of one share of our common stock, at a unit purchase price of \$1.37 per unit, in a private placement with various accredited investors. The warrants, exercisable for two years from closing of such private placement, as initially issued, entitled such investors to purchase up to an aggregate of 869,113 shares of our common stock at an exercise price of \$2.57 per share during the first year and \$3.22 per share during the second year. In connection with this private placement, RPC issued Limetree Capital, the placement agent in such private placement, warrants to purchase in the aggregate 129,733 shares of our common stock at an exercise price of \$1.50 per share for a five year term and it paid to such placement agent cash fees totaling \$59,360. Such placement agent warrants contained a cashless (net exercise) feature that allows its holders, under certain circumstances, to exercise such warrants without making any cash payment.

We filed a registration statement with the SEC, covering the resale of 5,557,865 shares of our common stock, including common stock issuable upon the exercise of the warrants, on October 13, 2009. Such registration statement

covers certain of our common stock as described above.

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Post-Merger Financings

Registered Direct Offering

On December 17, 2009, we entered into a Placement Agent Agreement with Ladenburg Thalmann & Co. Inc., or Ladenburg, as placement agent relating to the issuance and sale to the Direct Offering Investors (as defined below) pursuant to a registered direct offering, or the Direct Offering, of up to 3,747,558 units, or the Units, consisting of (i) 3,747,558 shares of our common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), or the Series A Warrants, and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), or the Series B Warrants, and collectively with the Series A Warrants we refer to as Investor Warrants.

Ladenburg received a placement fee equal to 6.5% of the gross cash proceeds to us from the Direct Offering of the Units or \$487,183 (excluding any consideration that may be paid in the future upon exercise of the Warrants), a warrant to purchase up to an aggregate of 74,951 shares of our common stock at \$2.50 per share (valued at approximately \$52,000 using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and \$25,000 in out-of-pocket accountable expenses. The warrant issued to Ladenburg has the same terms and conditions as the Investor Warrants except that the exercise price is 125% of the public offering price per share or \$2.50 per share, and the expiration date is five years from the effective date of that certain shelf registration statement on Form S-3 (Registration No. 333-162374) which was declared effective by the SEC on November 5, 2009. Such registration statement is being amended by the amendment to the registration statement of which this prospectus forms a part.

In connection with the Direct Offering, following execution of the Placement Agent Agreement, we also entered into a definitive securities purchase agreement, or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors set forth on the signature pages thereto, collectively referred to as Direct Offering Investors, with respect to the Direct Offering of the Units, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per Unit, amounting to gross proceeds of approximately \$7.5 million and estimated net proceeds after commissions and expenses of approximately \$6.2 million. Each Unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. The shares of our common stock and the Warrants were issued separately. The Series A Warrants are exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the fifth (5th) anniversary of the date of issue. The Series B Warrants are exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the eighteen (18) month anniversary of the date of issue. The Investor Warrants have a per share exercise price of \$2.45. The Series A Warrants were valued at \$1.3 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and the Series B Warrants were valued at \$0.5 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 0.56%; expected term 18 months and annual volatility 49.28%). Based on the underlying terms of the Investor Warrants and Placement Agent Warrants, the Investor Warrants are classified as liability on our consolidated financial statements.

Equity Line Facility with Lincoln Park Capital Fund, LLC, or LPC

On April 16, 2010, we executed a purchase agreement, or the LPC Purchase Agreement, and a registration rights agreement, or the LPC Registration Rights Agreement, with LPC. Under the LPC Purchase Agreement, LPC is obligated to purchase from us up to \$15 million of our common stock, from time to time over a twenty-five (25) month period. The issuance of our common stock to LPC under the LPC Purchase Agreement is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act, as the transaction did not involve a public offering.

Pursuant to the LPC Registration Rights Agreement, we filed a registration statement on April 23, 2010 with the SEC, for 4.5 million shares of our common stock covering the shares that have been issued or may be issued to LPC under the LPC Purchase Agreement. The registration statement was declared effective on May 7, 2010. Thereafter, over approximately 25 months, generally we have the right to direct LPC to purchase up to \$15,000,000 of our common stock in amounts up to \$100,000 as often as every two business days under certain conditions. We can also accelerate the

amount of our common stock to be purchased under certain circumstances. No sales of shares may occur at a purchase price below \$1.50 per share. The purchase price of the shares will be based on the market prices of our shares at the time of sale as computed under the LPC Purchase Agreement without any fixed discount. We may at any time in our sole discretion terminate the LPC Purchase Agreement without fee, penalty or cost upon one business days notice. We issued 145,033 shares of our common stock to LPC as a commitment fee for entering into the agreement, and we are obligated to issue up to 217,549 shares pro rata as LPC purchases up to \$15,000,000 of our common stock as directed by us.

The 4.5 million shares that we registered consist of 4,137,418 shares that we have or may sell to LPC, 145,033 shares we issued as a commitment fee, and 217,549 shares that we have or are obligated to issue to LPC as a commitment fee pro rata as up to \$15 million of our common stock is purchased by LPC.

Cumulatively, as of November 5, 2010, we have sold approximately 2.2 million shares under the equity line, raising approximately \$4.9 million in gross proceeds to us. We may direct LPC to purchase up to an additional \$10.1 million of shares of our common stock under the LPC Purchase Agreement over the next 21 months, generally in amounts of up to \$100,000 every 2 business days. The selling price of our common stock to LPC will have to average at least \$5.14 per share for us to receive the maximum proceeds of \$15 million under the LPC Purchase Agreement. Assuming a purchase price of \$1.50 per share (the minimum price of the common stock) and the purchase by LPC of the 1,966,620 shares left under the LPC Purchase Agreement plus the proceeds from the 2,170,798 shares purchased by LPC to-date, proceeds to us would only be approximately \$7.8 million unless we choose to register more than 4,137,418 shares for sale to LPC under the LPC Purchase Agreement, which, subject to the approval of our board of directors, we have the right, but not the obligation, to do. In the event we elect to issue more than the 4.5 million shares of our common stock registered under a certain registration statement with the SEC, we must first register under the Securities Act, any additional shares we may elect to sell to LPC before we can sell such additional shares, which could cause substantial dilution to our stockholders. In addition, in the event that we decide to issue more than 4.5 million shares, i.e., greater than 19.99% of our outstanding shares of common stock as of the date of the LPC Purchase Agreement, we would first be required to seek stockholder approval in order to be in compliance with the NASDAQ Capital Market rules.

2010 Private Placement

On August 9, 2010, we entered into a securities purchase agreement with 23 investors set forth on the signature pages thereto (or, the U.S. Investors) and a separate securities purchase agreement with a certain Canadian investor (or, the Canadian Investor and together with the U.S. Investors, the 2010 Private Placement Investors) set forth on the signature pages thereto (or collectively, the 2010 Private Placement Purchase Agreements), for the private placement, or the 2010 Private Placement, of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. JMP Securities LLC, or the Placement Agent, served as our placement agent in the 2010 Private Placement.

The closing of this private placement occurred on August 12, 2010. We issued and sold an aggregate of 4,897,614 units, comprised of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August

12, 2010, has an exercise price of \$3.075 per share. As the placement agent for the 2010 Private Placement, the Placement Agent was issued one warrant to purchase 97,952 shares of our common stock, paid a cash commission of \$978,911 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

In connection with the 2010 Private Placement, on August 12, 2010, we entered into a registration rights agreement, or the 2010 Private Placement Registration Rights Agreement, with the 2010 Private Placement Investors, pursuant to which we filed with the SEC a registration statement covering the resale of the common stock issued to the 2010 Private Placement Investors under the 2010 Private Placement Purchase Agreements and the shares of common stock that will be issued to the 2010 Private Placement Investors upon exercise of the warrants, including the warrant issued to the Placement Agent. Such registration statement was declared effective on August 31, 2010.

Our securities offered and sold under the 2010 Private Placement Purchase Agreements to the 2010 Private Placement Investors were offered and sold in reliance upon exemptions from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as transactions by an issuer not involving a public offering.

SECURITIES OFFERED

| | |
|------------------------------|--|
| Securities sold and offered: | 3,747,558 shares of our common stock have been issued in the Direct Offering. 1,873,779 Series A Warrants and 1,873,779 Series B Warrants to purchase our common stock have been issued in the Direct Offering. 3,698,808 shares of our common stock to be issued upon exercise of the Series A Warrants and Series B Warrants. |
| Warrant terms | The Series A Warrants and Series B Warrants are exercisable at a price of \$2.45 per share and are exercisable commencing on June 20, 2010. The Series A Warrants have a term of five years terminating on December 22, 2014, and the Series B Warrants have a term of eighteen months terminating on June 22, 2011. |
| Use of proceeds: | The net proceeds from the issuance of the units, after deducting the placement agent's fees and our expenses, was approximately \$6.9 million, based on a public offering price of \$2.00 per share. The net proceeds from the exercise of the Series A Warrants and the Series B Warrants will be approximately \$9.2 million, based on an exercise price of \$2.45 per share. We expect to use the net proceeds from the offering to fund part of our capital expenditure program and for other corporate purposes. See "Use of Proceeds" on page 28 of this prospectus. |
| Risk Factors | See "Risk Factors" beginning on page 9 and other information included in this prospectus for a discussion of factors you should carefully consider before deciding to invest in the shares. |
| NASDAQ Ticker Symbol: | RPTP |

RISK FACTORS

An investment in our securities involves a high degree of risk. Before you decide to invest in our securities, you should consider carefully all of the information in this prospectus, including the risks described below, as well as other information included in this prospectus, particularly the specific risk factors discussed in the sections titled “Risk Factors” contained in our filings with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Any of these risks could have a material adverse effect on our business, prospects, financial condition and results of operations. In any such case, the trading price of our common stock could decline and you could lose all or part of your investment. You should also refer to the other information contained in this prospectus, or incorporated herein by reference, including our financial statements and the notes to those statements, and the information set forth under the caption “Forward Looking Statements.” The risks described below and contained in our other periodic reports are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also adversely affect our business operations.

Risks Related to Our Business

If we fail to obtain the capital necessary to fund our operations, our financial results, financial condition and our ability to continue as a going concern will be adversely affected and we will have to delay or terminate some or all of our product development programs.

Our consolidated financial statements as of August 31, 2010 have been prepared assuming that we will continue as a going concern. As of August 31, 2010, we had an accumulated deficit of approximately \$40.8 million. We expect to continue to incur losses for the foreseeable future and will have to raise substantial cash to fund our planned operations. Our recurring losses from operations and our stockholders’ deficit raise substantial doubt about our ability to continue as a going concern and, as a result, our independent registered public accounting firm included an explanatory paragraph in its report on our consolidated financial statements for the year ended August 31, 2010, with respect to this uncertainty. We will need to generate significant revenue or raise additional capital to continue to operate as a going concern. In addition, the perception that we may not be able to continue as a going concern may cause others to choose not to deal with us due to concerns about our ability to meet our contractual obligations and may adversely affect our ability to raise additional capital.

We believe our cash and cash equivalents as of August 31, 2010 of \$16.9 million will be sufficient to meet our obligations into December 2011. We are currently in the process of negotiating strategic partnerships, collaborations and potential equity sales to supplement the funding of our preclinical and clinical programs beyond December 2011. If we are unable to obtain such additional capital when needed, we may be forced to scale down our expenditures.

On August 9, 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of units comprised of our common stock, and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010,

has an exercise price of \$3.075 per share. As the placement agent to this private placement, JMP Securities LLC was issued one warrant to purchase 97,952 shares of our common stock, paid a cash commission of \$978,911 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement. Even with the 2010 Private Placement, in the future, we may need to sell equity or debt securities to raise additional funds. The sale of additional securities is likely to result in additional dilution to our stockholders. Additional financing may not be available in amounts or on terms satisfactory to us or at all. We may be unable to raise additional financing due to a variety of factors, including our financial condition, the status of our research and development programs, and the general condition of the financial markets. If we fail to raise additional financing when needed, we may have to delay or terminate some or all of our research and development programs, our financial condition and operating results may be adversely affected and we may have to scale back our operations.

While we were restricted from selling additional shares of our common stock under the 2010 Private Placement Purchase Agreements until November 10, 2010, we may issue shares in connection with the exercise of warrants and/or stock options, and after the

expiration of such “lock-up” period, we may draw on the equity line with LPC. The extent to which we rely on LPC as a source of funding will depend on a number of factors including, the prevailing market price of our common stock and the extent to which we are able to secure working capital from other sources. Specifically, LPC does not have the right nor the obligation to purchase any shares of our common stock on any business days that the purchase price of our common stock is less than \$1.50 per share. If obtaining sufficient funding from LPC were to prove unavailable or prohibitively dilutive, and if other sources of funding are available to us, we may determine not to sell shares to LPC under the LPC Purchase Agreement.

If we obtain additional financing, we expect to continue to spend substantial amounts of capital on our operations for the foreseeable future. The amount of additional capital we will need depends on many factors, including:

- the progress, timing and scope of our preclinical studies and clinical trials;
- the time and cost necessary to obtain regulatory approvals;
- the time and cost necessary to develop commercial manufacturing processes, including quality systems, and to build or acquire manufacturing capabilities;
- the time and cost necessary to launch and successfully commercialize our product candidates, once approved;
- the time and cost necessary to respond to technological and market developments; and
- any changes made or new developments in our existing collaborative, licensing and other corporate relationships or any new collaborative, licensing and other commercial relationships that we may establish.

Moreover, our fixed expenses such as rent, collaboration and license payments and other contractual commitments are substantial and will likely increase in the future. These fixed expenses are likely to increase because we expect to enter into:

- additional licenses and collaborative agreements;
- contracts for manufacturing, clinical and preclinical research, consulting, maintenance and administrative services; and
- financing facilities.

We are an early development stage company and have not generated any revenues to date and have a limited operating history. Many of our drug product candidates are in the concept stage and have not undergone significant testing in preclinical studies or any testing in clinical trials. Moreover, we cannot be certain that our research and development efforts will be successful or, if successful, that our drug product candidates will ever be approved for sale or generate commercial revenues. We have a limited relevant operating history upon which an evaluation of our performance and prospects can be made. We are subject to all of the business risks associated with a new enterprise, including, but not limited to, risks of unforeseen capital requirements, failure of drug product candidates either in preclinical testing or in clinical trials, failure to establish business relationships, and competitive disadvantages against larger and more established companies.

The current disruptions in the financial markets could affect our ability to obtain financing on favorable terms (or at all).

The U.S. credit markets have recently experienced historic dislocations and liquidity disruptions which have caused financing to be unavailable in many cases and, even if available, have caused the cost of prospective financings to

increase. These circumstances have materially impacted liquidity in the debt markets, making financing terms for borrowers able to find financing less attractive, and in many cases have resulted in the unavailability of certain types of debt financing. Continued uncertainty in the debt and equity markets may negatively impact our ability to access financing on favorable terms or at all. In addition, Federal legislation to deal with the current disruptions in the financial markets could have an adverse affect on our ability to raise other types of financing.

Even if we are able to develop our drug product candidates, we may not be able to receive regulatory approval, or if approved, we may not be able to generate significant revenues or successfully commercialize our products, which would adversely affect our financial results and financial condition and we would have to delay or terminate some or all of our research product development programs.

All of our drug product candidates are at an early stage of development and will require extensive additional research and development, including preclinical testing and clinical trials, as well as regulatory approvals, before we can market them. Since our inception in 1997, and since Raptor Pharmaceuticals Corp. began operations in 2005, both companies have dedicated substantially all of their resources to the research and development of their technologies and related compounds. All of our compounds currently are in preclinical or clinical development, and none have been submitted for marketing approval. Our preclinical compounds may not enter human clinical trials on a timely basis, if at all, and we may not develop any product candidates suitable for commercialization. We cannot predict if or when any of the drug product candidates we intend to develop will be approved for marketing. There are many reasons that we may fail in our efforts to develop our drug product candidates. These include:

- the possibility that preclinical testing or clinical trials may show that our drug product candidates are ineffective and/or cause harmful side effects;
- our drug product candidates may prove to be too expensive to manufacture or administer to patients;
- our drug product candidates may fail to receive necessary regulatory approvals from the FDA or foreign regulatory authorities in a timely manner, or at all;
- our drug product candidates, if approved, may not be produced in commercial quantities or at reasonable costs;
- our drug product candidates, if approved, may not achieve commercial acceptance;
- regulatory or governmental authorities may apply restrictions to our drug product candidates, which could adversely affect their commercial success; and
- the proprietary rights of other parties may prevent us or our potential collaborative partners from marketing our drug product candidates.

If we fail to develop our drug product candidates, our financial results and financial condition will be adversely affected, we will have to delay or terminate some or all of our research product development programs and may be forced to cease operations.

If we are limited in our ability to utilize acquired or licensed technologies, we may be unable to develop, out-license, market and sell our product candidates, which could cause delayed new product introductions, and/or adversely affect our reputation, any of which could have a material adverse effect on our business, prospects, financial condition, and operating results.

We have acquired and licensed certain proprietary technologies, discussed in the following risk factors, and plan to further license and acquire various patents and proprietary technologies owned by third parties. These agreements are critical to our product development programs. These agreements may be terminated, and all rights to the technologies and product candidates will be lost, if we fail to perform our obligations under these agreements and licenses in accordance with their terms including, but not limited to, our ability to make all payments due under such agreements. Our inability to continue to maintain these technologies could materially adversely affect our business, prospects, financial condition, and operating results. In addition, our business strategy depends on the successful development of these licensed and acquired technologies into commercial products, and, therefore, any limitations on our ability to utilize these technologies may impair our ability to develop, out-license, market and sell our product candidates, delay new product introductions, and/or adversely affect our reputation, any of which could have a material adverse effect on our business, prospects, financial condition, and operating results.

If the purchase or licensing agreements we entered into are terminated, we will lose the right to use or exploit our owned and licensed technologies, in which case we will have to delay or terminate some or all of our research and development programs, our financial condition and operating results will be adversely affected and we may have to cease our operations.

We entered into an asset purchase agreement with BioMarin Pharmaceutical Inc., or BioMarin, for the purchase of intellectual property related to the receptor associated protein, or RAP, technology, a licensing agreement with Washington University for mesoderm development protein, or Mesd, and a licensing agreement with UCSD for DR Cysteamine. BioMarin, Washington University and UCSD may terminate their respective agreements with us upon the occurrence of certain events, including if we enter into certain bankruptcy proceedings or if we materially breach our payment obligations and fail to remedy the breach within the permitted cure periods. Although we are not currently involved in any bankruptcy proceedings or in breach of these agreements, there is a risk that we may be in the future, giving BioMarin, Washington University and UCSD the right to

terminate their respective agreements with us. We have the right to terminate these agreements at any time by giving prior written notice. If the BioMarin, Washington University or UCSD agreements are terminated by either party, we would be forced to assign back to BioMarin, in the case of the BioMarin agreement, all of our rights, title and interest in and to the intellectual property related to the RAP technology, would lose our rights to the Mesd technology, in the case of the Washington University agreement and would lose our rights to DR Cysteamine, in the case of UCSD. Under such circumstances, we would have no further right to use or exploit the patents, copyrights or trademarks in those respective technologies. If this happens, we will have to delay or terminate some or all of our research and development programs, our financial condition and operating results will be adversely affected, and we may have to cease our operations. If we lose our rights to the intellectual property related to the RAP technology purchased by us from BioMarin, our agreement with Roche regarding the evaluation of therapeutic delivery across the blood-brain barrier utilizing NeuroTrans™ would likely be terminated and any milestone or royalty payments from Roche to us would thereafter cease to accrue.

If we fail to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, we may be limited in our ability to develop our drug product candidates.

Our competitors compete with us to attract established biotechnology and pharmaceutical companies or organizations for acquisitions, joint ventures, licensing arrangements or other collaborations. Collaborations include licensing proprietary technology from, and other relationships with, academic research institutions. If our competitors successfully enter into partnering arrangements or license agreements with academic research institutions, we will then be precluded from pursuing those specific opportunities. Since each of these opportunities is unique, we may not be able to find a substitute. Other companies have already begun many drug development programs, which may target diseases that we are also targeting, and have already entered into partnering and licensing arrangements with academic research institutions, reducing the pool of available opportunities.

Universities and public and private research institutions also compete with us. While these organizations primarily have educational or basic research objectives, they may develop proprietary technology and acquire patents that we may need for the development of our drug product candidates. We will attempt to license this proprietary technology, if available. These licenses may not be available to us on acceptable terms, if at all. If we are unable to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, we may be limited in our ability to develop new products.

If we do not achieve our projected development goals in the time frames we announce and expect, the credibility of our management and our technology may be adversely affected and, as a result, the price of our common stock may decline.

For planning purposes, we estimate the timing of the accomplishment of various scientific, clinical, regulatory and other product development goals, which we sometimes refer to as milestones. These milestones may include the commencement or completion of scientific studies and clinical trials and the submission of regulatory filings.

From time to time, we may publicly announce the expected timing of some of these milestones. All of these milestones will be based on a variety of assumptions. The actual timing of these milestones can vary dramatically

compared to our estimates, in many cases for reasons beyond our control. If we do not meet these milestones as publicly announced, our stockholders may lose confidence in our ability to meet these milestones and, as a result, the price of our common stock may decline.

Our product development programs will require substantial additional future funding which could impact our operational and financial condition.

It will take several years before we are able to develop marketable drug product candidates, if at all. Our product development programs will require substantial additional capital to successfully complete them, arising from costs to:

- conduct research, preclinical testing and human studies;
- establish pilot scale and commercial scale manufacturing processes and facilities; and
- establish and develop quality control, regulatory, marketing, sales, finance and administrative capabilities to support these programs.

Our future operating and capital needs will depend on many factors, including:

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- the pace of scientific progress in our research and development programs and the magnitude of these programs;
- the scope and results of preclinical testing and human clinical trials;
- our ability to obtain, and the time and costs involved in obtaining regulatory approvals;
- our ability to prosecute, maintain, and enforce, and the time and costs involved in preparing, filing, prosecuting, maintaining and enforcing patent claims;
- competing technological and market developments;
- our ability to establish additional collaborations;
- changes in our existing collaborations;
- the cost of manufacturing scale-up; and
- the effectiveness of our commercialization activities.

We base our outlook regarding the need for funds on many uncertain variables. Such uncertainties include the success of our research initiatives, regulatory approvals, the timing of events outside our direct control such as negotiations with potential strategic partners and other factors. Any of these uncertain events can significantly change our cash requirements as they determine such one-time events as the receipt or payment of major milestones and other payments.

Significant additional funds will be required to support our operations and if we are unable to obtain them on favorable terms, we may be required to cease or reduce further development or commercialization of our drug product programs, to sell some or all of our technology or assets, to merge with another entity or cease operations.

Uncertainties regarding healthcare reform and third-party reimbursement may impair our ability to raise capital, form collaborations and if any of our product candidates become marketable, sell such products.

The continuing efforts of governmental and third-party payers to contain or reduce the costs of healthcare through various means may harm our business. For example, in some foreign markets, the pricing or profitability of healthcare products is subject to government control. In the United States, there have been, and we expect there will continue to be, a number of federal and state proposals to implement similar government control. The implementation or even the announcement of any of these legislative or regulatory proposals or reforms could harm our business if any of our product candidates become marketable by reducing the prices we or our partners are able to charge for our products (if marketable), impeding our ability to achieve profitability, raise capital or form collaborations. In addition, the availability of reimbursement from third-party payers determines, in large part, the demand for healthcare products in the United States and elsewhere. Examples of such third-party payers are government and private insurance plans. Significant uncertainty exists as to the reimbursement status of newly approved healthcare products and third-party payers are increasingly challenging the prices charged for medical products and services. If we succeed in bringing one or more products to the market, reimbursement from third-party payers may not be available or may not be sufficient to allow us to sell such products on a competitive or profitable basis.

If we fail to demonstrate efficacy in our preclinical studies and clinical trials our future business prospects, financial condition and operating results will be materially adversely affected.

The success of our development and commercialization efforts will be greatly dependent upon our ability to demonstrate drug product candidate efficacy in preclinical studies, as well as in clinical trials. Preclinical studies involve testing drug product candidates in appropriate non-human disease models to demonstrate efficacy and safety. Regulatory agencies evaluate these data carefully before they will approve clinical testing in humans. If certain preclinical data reveals potential safety issues or the results are inconsistent with an expectation of the drug product candidate's efficacy in humans, the regulatory agencies may require additional more rigorous testing, before allowing human clinical trials. This additional testing will increase program expenses and extend timelines. We may decide to suspend further testing on our drug product candidates or technologies if, in the judgment of our management and advisors, the preclinical test results do not support further development.

Moreover, success in preclinical testing and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be sure that the results of later clinical trials will replicate the results of prior clinical trials and preclinical testing. The clinical trial process may fail to demonstrate that our drug product candidates are safe for humans and effective for indicated uses. This failure would cause us to abandon a drug product candidate and may delay development of other drug product candidates. Any delay in, or termination of, our preclinical testing or clinical trials will delay the filing of our investigational new drug application, or IND, and new drug application, or NDA, as applicable, with the FDA and, ultimately, our ability to commercialize our drug product candidates and generate product revenues. In addition, some of our clinical trials will involve small patient populations. Because of the small sample size, the results of these early clinical trials may not be indicative of future results. Following successful preclinical testing, drug product candidates will need to be tested in a clinical development program to provide data on safety and efficacy prior to becoming eligible for product approval and licensure by regulatory agencies. From first clinical trial through product approval can take at least eight years, on average in the U.S.

If any of our future clinical development drug product candidates become the subject of problems, including those related to, among others:

- efficacy or safety concerns with the drug product candidates, even if not justified;
- unexpected side-effects;
- regulatory proceedings subjecting the drug product candidates to potential recall;
- publicity affecting doctor prescription or patient use of the drug product candidates;
- pressure from competitive products; or
- introduction of more effective treatments,

our ability to sustain our development programs will become critically compromised. For example, efficacy or safety concerns may arise, whether or not justified, that could lead to the suspension or termination of our clinical programs.

Each clinical phase is designed to test attributes of drug product candidates and problems that might result in the termination of the entire clinical plan can be revealed at any time throughout the overall clinical program. The failure to demonstrate efficacy in our clinical trials would have a material adverse effect on our future business prospects, financial condition and operating results.

If we do not obtain the support of new, and maintain the support of existing, key scientific collaborators, it may be difficult to establish products using our technologies as a standard of care for various indications, which may limit our revenue growth and profitability and could have a material adverse effect on our business, prospects, financial condition and operating results.

We will need to establish relationships with additional leading scientists and research institutions. We believe that such relationships are pivotal to establishing products using our technologies as a standard of care for various indications. Although we have established a Medical and Scientific Advisory Board and research collaborations, there is no assurance that our Advisory Board members and our research collaborators will continue to work with us or that we will be able to attract additional research partners. If we are not able to maintain existing or establish new scientific

relationships to assist in our research and development, we may not be able to successfully develop our drug product candidates.

If the manufacturers upon whom we rely fail to produce in the volumes and quality that we require on a timely basis, or to comply with stringent regulations applicable to pharmaceutical manufacturers, we may face delays in the development and commercialization of, or be unable to meet demand for, our products, if any, and may lose potential revenues.

We do not currently manufacture our drug product candidates and do not currently plan to develop the capacity to do so. The manufacture of pharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of pharmaceutical products often encounter difficulties in production, particularly in scaling up initial production. These problems include difficulties with production costs and yields, quality control, including stability of the product candidate and quality assurance testing, shortages of qualified personnel, as well as compliance with strictly enforced federal, state and foreign regulations. Our third-party manufacturers and key suppliers may experience manufacturing difficulties due to resource constraints or as a result of labor disputes, unstable political environments at foreign facilities or financial difficulties. If these manufacturers or key suppliers were to encounter any of these difficulties, or

otherwise fail to comply with their contractual obligations, our ability to timely launch any potential product candidate, if approved, would be jeopardized.

In addition, all manufacturers and suppliers of pharmaceutical products must comply with current good manufacturing practices, or cGMP, requirements enforced by the FDA, through its facilities inspection program. The FDA is likely to conduct inspections of our third party manufacturer and key supplier facilities as part of their review of any of our NDAs. If our third party manufacturers and key suppliers are not in compliance with cGMP requirements, it may result in a delay of approval, particularly if these sites are supplying single source ingredients required for the manufacture of any potential product. These cGMP requirements include quality control, quality assurance and the maintenance of records and documentation. Furthermore, regulatory qualifications of manufacturing facilities are applied on the basis of the specific facility being used to produce supplies. As a result, if one of the manufacturers that we rely on shifts production from one facility to another, the new facility must go through a complete regulatory qualification and be approved by regulatory authorities prior to being used for commercial supply. Our manufacturers may be unable to comply with these cGMP requirements and with other FDA, state and foreign regulatory requirements. A failure to comply with these requirements may result in fines and civil penalties, suspension of production, suspension or delay in product approval, product seizure or recall, or withdrawal of product approval. If the safety of any quantities supplied is compromised due to our third party manufacturer's or key supplier's failure to adhere to applicable laws or for other reasons, we may not be able to obtain regulatory approval for or successfully commercialize our products.

If we fail to obtain or maintain orphan drug exclusivity for some of our drug product candidates, our competitors may sell products to treat the same conditions and our revenues will be reduced.

As part of our business strategy, we intend to develop some drugs that may be eligible for FDA and European Union, or EU, orphan drug designation. Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug intended to treat a rare disease or condition, defined as a patient population of less than 200,000 in the U.S. The company that first obtains FDA approval for a designated orphan drug for a given rare disease receives marketing exclusivity for use of that drug for the stated condition for a period of seven years. Orphan drug exclusive marketing rights may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug. Similar regulations are available in the EU with a 10-year period of market exclusivity.

Because the extent and scope of patent protection for some of our drug products is particularly limited, orphan drug designation is especially important for our products that are eligible for orphan drug designation. For eligible drugs, we plan to rely on the exclusivity period under Orphan Drug Act designation to maintain a competitive position. If we do not obtain orphan drug exclusivity for our drug products that do not have patent protection, our competitors may then sell the same drug to treat the same condition and our revenues will be reduced.

Even though we have obtained orphan drug designation for DR Cysteamine for the potential treatment of nephropathic cystinosis, the potential treatment of HD and the potential treatment of Batten Disease and even if we obtain orphan drug designation for our future drug product candidates, due to the uncertainties associated with developing pharmaceutical products, we may not be the first to obtain marketing approval for any orphan indication. Further, even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the

product from competition because different drugs can be approved for the same condition. Even after an orphan drug is approved, the FDA can subsequently approve the same drug for the same condition if the FDA concludes that the later drug is safer, more effective or makes a major contribution to patient care. Orphan drug designation neither shortens the development time or regulatory review time of a drug, nor gives the drug any advantage in the regulatory review or approval process.

The fast-track designation for our drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of our products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Although we have received Orphan Drug Designations from the FDA as described above, our drug product candidates may not receive an FDA fast-track designation or priority review. Without fast-track designation, submitting an NDA and getting through the regulatory process to gain marketing approval is a lengthy process. Under fast-track designation, the FDA may initiate review of sections of a fast-track drug's NDA before the application is complete. However, the FDA's time period goal for reviewing an application does not begin until the last section of the NDA is submitted. Additionally, the fast-track designation may be withdrawn by the FDA if the FDA believes that the designation is no longer supported by data emerging in the clinical trial process. Under the FDA policies, a drug candidate is eligible for priority review, or review within a six-month time frame from the time a complete NDA is accepted for filing, if the drug candidate provides a significant improvement compared to

marketed drugs in the treatment, diagnosis or prevention of a disease. A fast-track designated drug candidate would ordinarily meet the FDA's criteria for priority review. The fast-track designation for our drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of our products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Because the target patient populations for some of our products are small, we must achieve significant market share and obtain high per-patient prices for our products to achieve profitability.

Our clinical development of DR Cysteamine targets diseases with small patient populations, including nephropathic cystinosis and HD. If we are successful in developing DR Cysteamine and receive regulatory approval to market DR Cysteamine for a disease with a small patient population, the per-patient prices at which we could sell DR Cysteamine for these indications are likely to be relatively high in order for us to recover our development costs and achieve profitability. We believe that we will need to market DR Cysteamine for these indications worldwide to achieve significant market penetration of this product.

We may not be able to market or generate sales of our products to the extent anticipated.

Assuming that we are successful in developing our drug product candidates and receive regulatory clearances to market our products, our ability to successfully penetrate the market and generate sales of those products may be limited by a number of factors, including the following:

- Certain of our competitors in the field have already received regulatory approvals for and have begun marketing similar products in the U.S., the EU, Japan and other territories, which may result in greater physician awareness of their products as compared to ours.
- Information from our competitors or the academic community indicating that current products or new products are more effective than our future products could, if and when it is generated, impede our market penetration or decrease our future market share.
- Physicians may be reluctant to switch from existing treatment methods, including traditional therapy agents, to our future products.
- The price for our future products, as well as pricing decisions by our competitors, may have an effect on our revenues.
- Our future revenues may diminish if third-party payers, including private healthcare coverage insurers and healthcare maintenance organizations, do not provide adequate coverage or reimbursement for our future products.

There are many difficult challenges associated with developing proteins that can be used to transport therapeutics across the blood-brain barrier.

Our RAP technology has a potential clinical use as a drug transporter through the blood-brain barrier. However, we do not know that our technology will work or work safely. Many groups and companies have attempted to solve the critical medical challenge of developing an efficient method of transporting therapeutic proteins from the blood stream into the brain. Unfortunately, these efforts to date have met with little success due in part to a lack of adequate

understanding of the biology of the blood-brain barrier and to the enormous scientific complexity of the transport process itself. In the research and development of our RAP technology, we will certainly face many of the same issues that have caused these earlier attempts to fail. It is possible that:

- We or our collaborator/licensee will not be able to produce enough RAP drug product candidates for testing;
- the pharmacokinetics, or where the drug distributes in the body, of our RAP drug product candidates will preclude sufficient binding to the targeted receptors on the blood-brain barrier;
- the targeted receptors are not transported across the blood-brain barrier;
- other features of the blood-brain barrier, apart from the cells, block access molecules to brain tissue after transport across the cells;
- the targeted receptors are expressed on the blood-brain barrier at densities insufficient to allow adequate transport of our RAP drug product candidates into the brain;
- targeting of the selected receptors induces harmful side-effects which prevent their use as drugs; or
- that we or our collaborator/licensee's RAP drug product candidates cause unacceptable side-effects.

Any of these conditions may preclude the use of RAP or RAP fusion compounds from potentially treating diseases affecting the brain.

If our competitors succeed in developing products and technologies that are more effective than our own, or if scientific developments change our understanding of the potential scope and utility of our drug product candidates, then our technologies and future drug product candidates may be rendered less competitive.

We face significant competition from industry participants that are pursuing similar technologies that we are pursuing and are developing pharmaceutical products that are competitive with our drug product candidates. Nearly all of our industry competitors have greater capital resources, larger overall research and development staffs and facilities, and a longer history in drug discovery and development, obtaining regulatory approval and pharmaceutical product manufacturing and marketing than we do. With these additional resources, our competitors may be able to respond to the rapid and significant technological changes in the biotechnology and pharmaceutical industries faster than we can. Our future success will depend in large part on our ability to maintain a competitive position with respect to these technologies. Rapid technological development, as well as new scientific developments, may result in our compounds, drug product candidates or processes becoming obsolete before we can recover any of the expenses incurred to develop them. For example, changes in our understanding of the appropriate population of patients who should be treated with a targeted therapy like we are developing may limit the drug's market potential if it is subsequently demonstrated that only certain subsets of patients should be treated with the targeted therapy.

Our reliance on third parties, such as collaborators, university laboratories, contract manufacturing organizations and contract or clinical research organizations, may result in delays in completing, or a failure to complete, preclinical testing or clinical trials if they fail to perform under our agreements with them.

In the course of product development, we may engage university laboratories, other biotechnology or companies or contract or clinical manufacturing organizations to manufacture drug material for us to be used in preclinical and clinical testing and collaborators and contract or clinical research organizations to conduct and manage preclinical studies and clinical trials. If we engage these organizations to help us with our preclinical and clinical programs, many

important aspects of this process have been and will be out of our direct control. If any of these organizations we may engage in the future fail to perform their obligations under our agreements with them or fail to perform preclinical testing and/or clinical trials in a satisfactory manner, we may face delays in completing our clinical trials, as well as commercialization of any of our drug product candidates. Furthermore, any loss or delay in obtaining contracts with such entities may also delay the completion of our clinical trials, regulatory filings and the potential market approval of our drug product candidates.

Companies and universities that have licensed product candidates to us for research, clinical development and marketing are sophisticated competitors that could develop similar products to compete with our products which could reduce our future revenues.

Licensing our product candidates from other companies, universities or individuals does not always prevent them from developing non-identical but competitive products for their own commercial purposes, nor from pursuing patent protection in areas that are competitive with us. While we seek patent protection for all of our owned and licensed product candidates, our licensors or assignors who created these product candidates are experienced scientists and business people who may continue to do research and development and seek patent protection in the same areas that led to the discovery of the product candidates that they licensed or assigned to us. By virtue of the previous research that led to the discovery of the drugs or product candidates that they licensed or assigned to us, these companies, universities, or individuals may be able to develop and market competitive products in less time than might be required to develop a product with which they have no prior experience and may reduce our future revenues from such product candidates.

Any product revenues could be reduced by imports from countries where our product candidates are available at lower prices.

Even if we obtain FDA approval to market our potential products in the United States, our sales in the United States may be reduced if our products are imported into the United States from lower priced markets, whether legally or illegally. In the United States, prices for pharmaceuticals are generally higher than in the bordering nations of Canada and Mexico. There have been proposals to legalize the import of pharmaceuticals from outside the United States. If such legislation were enacted, our potential future revenues could be reduced.

The use of any of our drug product candidates in clinical trials may expose us to liability claims.

The nature of our business exposes us to potential liability risks inherent in the testing, manufacturing and marketing of our drug product candidates. While we are in clinical stage testing, our drug product candidates could potentially harm people or allegedly harm people and we may be subject to costly and damaging product liability claims. Some of the patients who participate in clinical trials are already critically ill when they enter a trial. The waivers we obtain may not be enforceable and may not protect us from liability or the costs of product liability litigation. Although we currently carry a \$3 million clinical product liability insurance policy, it may not be sufficient to cover future claims. We currently do not have any clinical or product liability claims or threats of claims filed against us.

Our future success depends, in part, on the continued service of our management team.

Our success is dependent in part upon the availability of our senior executive officers, including our Chief Executive Officer, Dr. Christopher M. Starr, our Chief Scientific Officer, Dr. Todd C. Zankel, our Chief Financial Officer, Kim R. Tsuchimoto, Ted Daley, the President of our clinical development subsidiary and Dr. Patrice P. Rioux, Chief Medical Officer of our clinical development subsidiary. The loss or unavailability to us of any of these individuals or key research and development personnel, and particularly if lost to competitors, could have a material adverse effect on our business, prospects, financial condition, and operating results. We have no key-man insurance on any of our employees. There is intense competition for qualified scientists and managerial personnel from numerous pharmaceutical and biotechnology companies, as well as from academic and government organizations, research institutions and other entities. In addition, we will rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development strategy. All of our consultants and advisors will be

employed by other employers or be self-employed, and will have commitments to or consulting or advisory contracts with other entities that may limit their availability to us. There is no assurance that we will be able to retain key employees and/or consultants. If key employees terminate their employment, or if insufficient numbers of employees are retained to maintain effective operations, our development activities might be adversely affected, management's attention might be diverted from managing our operations to hiring suitable replacements, and our business might suffer. In addition, we might not be able to locate suitable replacements for any key employees that terminate, or that are terminated from, their employment with us and we may not be able to offer employment to potential replacements on reasonable terms, which could negatively impact our product candidate development timelines and may adversely affect our future revenues and financial condition.

Our success depends on our ability to manage our growth.

If we are able to raise significant additional financing, we expect to continue to grow, which could strain our managerial, operational, financial and other resources. With the addition of our clinical-stage programs and with our plan to in-license and acquire additional clinical-stage product candidates, we will be required to retain experienced personnel in the regulatory, clinical and medical areas over the next several years. Also, as our preclinical pipeline diversifies through the acquisition or in-licensing of new molecules, we will need to hire additional scientists to supplement our existing scientific expertise over the next several years.

Our staff, financial resources, systems, procedures or controls may be inadequate to support our operations and our management may be unable to take advantage of future market opportunities or manage successfully our relationships with third parties if we are unable to adequately manage our anticipated growth and the integration of new personnel.

Our executive offices and laboratory facility are located near known earthquake fault zones, and the occurrence of an earthquake or other catastrophic disaster could cause damage to our facility and equipment, or that of our third-party manufacturers or single-source suppliers, which could materially impair our ability to continue our product development programs.

Our executive offices and laboratory facility are located in the San Francisco Bay Area near known earthquake fault zones and are vulnerable to significant damage from earthquakes. We and the third-party manufacturers with whom we contract and our single-source suppliers of raw materials are also vulnerable to damage from other types of disasters, including fires, floods, power loss and similar events. If any disaster were to occur, our ability to continue our product development programs, could be seriously, or potentially completely impaired. The insurance we maintain may not be adequate to cover our losses resulting from disasters or other business interruptions.

We will incur increased costs as a result of recently enacted and proposed changes in laws and regulations and our management will be required to devote substantial time to comply with such laws and regulations.

We face burdens relating to the recent trend toward stricter corporate governance and financial reporting standards. Legislation or regulations such as Section 404 of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as other rules implemented by the SEC and NASDAQ, follow the trend of imposing stricter corporate governance and financial reporting standards have led to an increase in the costs of compliance for companies similar to us, including increases in consulting, auditing and legal fees. New rules could make it more difficult or more costly for us to obtain certain types of insurance, including directors' and officers' liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, our board committees or as executive officers. Failure to comply with these new laws and regulations may impact market perception of our financial condition and could materially harm our business. Additionally, it is unclear what additional laws or regulations may develop, and we cannot predict the ultimate impact of any future changes in law. Our management and other personnel will need to devote a substantial amount of time to these requirements.

In addition, the Sarbanes-Oxley Act requires, among other things, that we maintain effective internal control over financial reporting and disclosure controls and procedures. In particular, we must perform system and process evaluation and testing of our internal controls over financial reporting to allow management to report on the effectiveness of our internal controls over financial reporting, as required by Section 404 of the Sarbanes-Oxley Act. Our compliance with Section 404 will require that we incur substantial accounting and related expense and expend significant management efforts. In the future, we may need to hire additional accounting and financial staff to satisfy the ongoing requirements of Section 404. Moreover, if we are not able to comply with the requirements of Section 404, or we or our independent registered public accounting firm identifies deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses, the market price of our stock could decline and we could be subject to sanctions or investigations by NASDAQ, the SEC or other regulatory authorities.

We may be required to suspend, repeat or terminate our clinical trials if they do not meet regulatory requirements, the results are negative or inconclusive, or if the trials are not well designed, which may result in significant negative repercussions on our business and financial condition.

Before regulatory approval for any potential product can be obtained, we must undertake extensive clinical testing on humans to demonstrate the tolerability and efficacy of the product, both on our own terms, and as compared to the other principal drugs on the market that have the same therapeutic indication. We cannot provide assurance that we will obtain authorization to permit product candidates that are already in the preclinical development phase to enter the human clinical testing phase. In addition, we cannot provide assurance that any authorized preclinical or clinical testing will be completed successfully within any specified time period by us, or without significant additional resources or expertise to those originally expected to be necessary. We cannot provide assurance that such testing will show potential products to be safe and efficacious or that any such product will be approved for a specific indication. Further, the results from preclinical studies and early clinical trials may not be indicative of the results that will be obtained in later-stage clinical trials. In addition, we or regulatory authorities may suspend clinical trials at any time on the basis that the participants are being exposed to unacceptable health risks.

Completion of clinical tests depends on, among other things, the number of patients available for testing, which is a function of many factors, including the number of patients with the relevant conditions, the nature of the clinical testing, the proximity of patients to clinical testing centers, the eligibility criteria for tests as well as competition with other clinical testing programs involving the same patient profile but different treatments. We will rely on third parties, such as contract research organizations and/or co-operative groups, to assist us in overseeing and monitoring clinical trials as well as to process the clinical results and manage test requests, which may result in delays or failure to complete trials, if the third parties fail to perform or to meet the applicable standards. A failure by us or such third parties to keep to the terms of a product program development for any particular product candidate or to complete the clinical trials for a product candidate in the envisaged time frame could have significant negative repercussions on our business and financial condition.

If we fail to establish and maintain collaborations or if our partners do not perform, we may be unable to develop and commercialize our product candidates, which may adversely affect our future revenues and financial condition.

We have entered into collaborative arrangements with third parties to develop and/or commercialize product candidates. Additional collaborations might be necessary in order for us to fund our research and development activities and third-party manufacturing arrangements, seek and obtain regulatory approvals and successfully commercialize existing and future product candidates. If we fail to maintain the existing collaborative arrangements held by us or fail to enter into additional collaborative arrangements, the number of product candidates from which we could receive future revenues would decline.

Our dependence on collaborative arrangements with third parties will subject us to a number of risks that could harm our ability to develop and commercialize products:

- collaborative arrangements might not be on terms favorable to us;
- disagreements with partners may result in delays in the development and marketing of products, termination of collaboration agreements or time consuming and expensive legal action;
- we cannot control the amount and timing of resources partners devote to product candidates or their prioritization of product candidates, and partners may not allocate sufficient funds or resources to the development, promotion or marketing of our product candidates, or may not perform their obligations as expected;
- partners may choose to develop, independently or with other companies, alternative products or treatments, including products or treatments which compete with ours;
- agreements with partners may expire or be terminated without renewal, or partners may breach collaboration agreements with us;
- business combinations or significant changes in a partner's business strategy might adversely affect that partner's willingness or ability to complete their obligations to us; and
- the terms and conditions of the relevant agreements may no longer be suitable.

We cannot assure you that we will be able to negotiate future collaboration agreements or that those currently in existence will make it possible for us to fulfill our objectives.

We may not complete our clinical trials in the time expected, which could delay or prevent the commercialization of our products, which may adversely affect our future revenues and financial condition.

Although for planning purposes we forecast the commencement and completion of clinical trials, the actual timing of these events can vary dramatically due to factors such as delays, scheduling conflicts with participating clinicians and clinical institutions and the rate of patient enrollment. Clinical trials involving our product candidates may not commence nor be completed as forecasted. In certain circumstances we will rely on academic institutions or clinical research organizations to conduct, supervise or monitor some or all aspects of clinical trials involving our product candidates. We will have less control over the timing and other aspects of these clinical trials than if we conducted them entirely on our own. These trials may not commence or be completed as we expect. They may not be conducted successfully. Failure to commence or complete, or delays in, any of our planned clinical trials could delay or prevent the commercialization of our product candidates and harm our business and may adversely affect our future revenues and financial condition.

If we fail to keep pace with rapid technological change in the biotechnology and pharmaceutical industries, our product candidates could become obsolete, which may adversely affect our future revenues and financial condition.

Biotechnology and related pharmaceutical technology have undergone and are subject to rapid and significant change. We expect that the technologies associated with biotechnology research and development will continue to develop rapidly. Our future will depend in large part on our ability to maintain a competitive position with respect to these technologies. Any compounds, products or processes that we develop may become obsolete before we recover any expenses incurred in connection with developing such products, which may adversely affect our future revenues and financial condition.

If we are unable to protect our proprietary technology, we may not be able to compete as effectively and our business and financial prospects may be harmed.

Where appropriate, we seek patent protection for certain aspects of our technology. Patent protection may not be available for some of the drug product candidates we are developing. If we must spend significant time and money protecting our patents, designing around patents held by others or licensing, potentially for large fees, patents or other proprietary rights held by others, our business and financial prospects may be harmed.

The patent positions of biopharmaceutical products are complex and uncertain.

We own or license patent applications related to certain of our drug product candidates. However, these patent applications do not ensure the protection of our intellectual property for a number of reasons, including the following:

- We do not know whether our patent applications will result in issued patents. For example, we may not have developed a method for treating a disease before others developed similar methods.
- Competitors may interfere with our patent process in a variety of ways. Competitors may claim that they invented the claimed invention prior to us. Competitors may also claim that we are infringing on their patents and therefore cannot practice our technology as claimed under our patents, if issued. Competitors may also contest our patents, if issued, by showing the patent examiner that the invention was not original, was not novel or was obvious. In litigation, a competitor could claim that our patents, if issued, are not valid for a number of reasons. If a court agrees, we would lose that patent. As a company, we have no meaningful experience with competitors interfering with our patents or patent applications.
- Enforcing patents is expensive and may absorb significant time of our management. Management would spend less time and resources on developing drug product candidates, which could increase our operating expenses and delay product programs.
- Receipt of a patent may not provide much practical protection. If we receive a patent with a narrow scope, then it will be easier for competitors to design products that do not infringe on our patent.
- In addition, competitors also seek patent protection for their technology. Due to the number of patents in our field of technology, we cannot be certain that we do not infringe on those patents or that we will not infringe on patents granted in the future. If a patent holder believes our drug product candidate infringes on its patent, the patent holder may sue us even if we have received patent protection for our technology. If someone else claims we infringe on their technology, we would face a number of issues, including the following:

- Defending a lawsuit takes significant time and can be very expensive.
- If a court decides that our drug product candidate infringes on the competitor's patent, we may have to pay substantial damages for past infringement.
- A court may prohibit us from selling or licensing the drug product candidate unless the patent holder licenses the patent to us. The patent holder is not required to grant us a license. If a license is available, we may have to pay substantial royalties or grant cross licenses to our patents.
- Redesigning our drug product candidates so we do not infringe may not be possible or could require substantial funds and time.

It is also unclear whether our trade secrets are adequately protected. While we use reasonable efforts to protect our trade secrets, our employees or consultants may unintentionally or willfully disclose our information to competitors. Enforcing a claim that someone else illegally obtained and is using our trade secrets, like patent litigation, is expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the U.S. are sometimes less willing to protect trade secrets. Our competitors may independently develop equivalent knowledge, methods and know-how. We may also support and collaborate in research

conducted by government organizations, hospitals, universities or other educational institutions. These research partners may be unwilling to grant us any exclusive rights to technology or products derived from these collaborations prior to entering into the relationship. If we do not obtain required licenses or rights, we could encounter delays in our product development efforts while we attempt to design around other patents or even be prohibited from developing, manufacturing or selling drug product candidates requiring these licenses. There is also a risk that disputes may arise as to the rights to technology or drug product candidates developed in collaboration with other parties.

If our agreements with employees, consultants, advisors and corporate partners fail to protect our intellectual property, proprietary information or trade secrets, it could have a significant adverse effect on us.

We have taken steps to protect our intellectual property and proprietary technology, by entering into confidentiality agreements and intellectual property assignment agreements with our employees, consultants, advisors and corporate partners. Such agreements may not be enforceable or may not provide meaningful protection for our trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements, and we may not be able to prevent such unauthorized disclosure. Monitoring unauthorized disclosure is difficult, and we do not know whether the steps we have taken to prevent such disclosure are, or will be, adequate. Furthermore, the laws of some foreign countries may not protect our intellectual property rights to the same extent as do the laws of the United States.

Risks Related to Our Common Stock

There are a substantial number of shares of our common stock eligible for future sale in the public market, and the issuance or sale of equity, convertible or exchangeable securities in the market, or the perception of such future sales or issuances, could lead to a decline in the trading price of our common stock.

Any issuance of equity, convertible or exchangeable securities, including for the purposes of financing acquisitions and the expansion of our business, may have a dilutive effect on our existing stockholders. In addition, the perceived risk associated with the possible issuance of a large number of shares of our common stock or securities convertible or exchangeable into a large number of shares of our common stock could cause some of our stockholders to sell their common stock, thus causing the trading price of our common stock to decline. Subsequent sales of our common stock in the open market or the private placement of our common stock or securities convertible or exchangeable into our common stock could also have an adverse effect on the trading price of our common stock. If our common stock price declines, it may be more difficult for us to or we may be unable to raise additional capital.

In addition, future sales of substantial amounts of our currently outstanding common stock in the public market, or the perception that such sales could occur, could adversely affect prevailing trading prices of our common stock, and could impair our ability to raise capital through future offerings of equity or equity-related securities. We cannot predict what effect, if any, future sales of our common stock, or the availability of shares for future sales, will have on the trading price of our common stock.

In December 2009, we entered into a definitive securities purchase agreement or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors, collectively, the Direct Offering Investors, with respect

to the offering of Units, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per Unit for aggregate gross proceeds of approximately \$7.5 million. Each Unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. The Series A Warrants are exercisable during the period beginning on June 20, 2010 and ending on December 22, 2014. The Series B Warrants are exercisable during the period beginning on June 20, 2010 and ending on June 20, 2011. The Investor Warrants have a per share exercise price of \$2.45. In connection with this offering we paid a placement agent cash compensation equaled to 6.5% of the gross proceeds or \$487,183 plus a five-year warrant at an exercise price of \$2.50 per share for the purchase of up to 74,951 shares of our common stock, on the same terms as the investor warrants described above.

In April 2010, we entered into a \$15 million equity line facility with LPC, which allows us to sell shares of our common stock every two days if our selling price to LPC is over \$1.50 per share. Cumulatively, as of November 5, 2010, we have sold approximately 2.2 million shares under the equity line raising approximately \$4.9 million in gross proceeds to us. We plan to continue to utilize, when available and if needed, the equity line to fund our future cash needs which could create additional pressure on our common stock price as LPC resells its shares of our common stock into the market. On April 23, 2010, we filed a registration statement on Form S-1 registering the resale by LPC of up to 4.5 million shares of our common stock that have been issued or may be issued to LPC under the equity line. Such registration statement was declared effective by the SEC on May 7, 2010.

In August 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share.

Our Chief Executive Officer, our Chief Financial Officer and each of the members of our Board of Directors own, in the aggregate, 935,405 shares, or approximately 3% of our outstanding common stock as of November 5, 2010. Sales of a substantial number of shares of our common stock by such officers and directors in the public trading market, whether in a single transaction or a series of transactions, or the perception that these sales may occur, could also have a significant effect on volatility and the trading price of our common stock.

As of November 5, 2010, there were (i) outstanding warrants to purchase 10,236,609 shares of our common stock at a weighted average exercise price of \$2.86 per share issued in connection with the transactions described above and other equity issuances, (ii) outstanding options to purchase 1,777,179 shares of our common stock outstanding under our 2010 and 2006 Raptor stock option plans at a weighted-average exercise price of \$2.58, (iii) options to purchase 157,667 shares of our common stock outstanding under our TorreyPines Therapeutics stock option plans at a weighted-average exercise price of \$106.89 and (iv) 2,153,670 shares of our common stock available for issuance under our 2010 Raptor Pharmaceutical stock option plan. The shares issuable under our stock option plans will be available for immediate resale in the public market. The shares issuable under the warrants are available for immediate resale in the public market. The market price of our common stock could decline as a result of such resales due to the increased number of shares available for sale in the market.

Future milestone payments, as more fully set forth under “Contractual Obligations with Thomas E. Daley (as assignee of the dissolved Convivia, Inc.)” and “Contractual Obligations with Former Encode Securityholders” discussed in certain of our periodic filings with the SEC relating to our acquisition of the Convivia assets and merger with Encode will result in dilution. We may be required to make additional contingent payments of up to 699,369 shares of our common stock, in the aggregate, under the terms of our acquisition of Convivia assets and merger with Encode, based on milestones related to certain future marketing and development approvals obtained with respect to Convivia and Encode product candidates. The issuance of any of these shares will result in further dilution to our existing stockholders.

These stock issuances and other future issuances of common stock underlying unexpired and unexercised warrants have and will result in, significant dilution to our stockholders. In connection with other collaborations, joint ventures, license agreements or future financings that we may enter into in the future, we may issue additional shares of common stock or other equity securities, and the value of the securities issued may be substantial and create additional dilution to our existing and future common stockholders.

Because we do not intend to pay any cash dividends on our common stock, investors will benefit from an investment in our common stock only if it appreciates in value. Investors seeking dividend income or liquidity should not purchase shares of our common stock.

We have not declared or paid any cash dividends on our common stock since our inception. We anticipate that we will retain our future earnings, if any, to support our operations and to finance the growth and development of our business and do not expect to pay cash dividends in the foreseeable future. As a result, the success of an investment in our common stock will depend upon any future appreciation in the value of our common stock. There is no guarantee that our common stock will appreciate in value or even maintain its current price. Investors seeking dividend income or liquidity should not invest in our common stock.

Our stock price is volatile, which could result in substantial losses for our stockholders, and the trading in our common stock may be limited.

Our common stock is quoted on the NASDAQ Capital Market. The trading price of our common stock has been and may continue to be volatile. Our operating performance does and will continue to significantly affect the market price of our common stock. We face a number of risks including those described herein, which may negatively impact the price of our common stock.

The market price of our common stock also may be adversely impacted by broad market and industry fluctuations regardless of our operating performance, including general economic and technology trends. The NASDAQ Capital Market has, from time to time, experienced extreme price and trading volume fluctuations, and the market prices of biopharmaceutical development companies such as ours have been extremely volatile. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile and trading in such securities has often been limited. Some of the factors that may cause the market price of our common stock to fluctuate include:

- the results of our current and any future clinical trials of our drug candidates;
- the results of ongoing preclinical studies and planned clinical trials of our preclinical drug candidates;
- the entry into, or termination of, key agreements, including key strategic alliance agreements;
- the results and timing of regulatory reviews relating to the approval of our drug candidates;
- the initiation of, material developments in, or conclusion of litigation to enforce or defend any of our intellectual property rights;
- failure of any of our drug candidates, if approved, to achieve commercial success;
- general and industry-specific economic conditions that may affect our research and development expenditures;
- the results of clinical trials conducted by others on drugs that would compete with our drug candidates;
- issues in manufacturing our drug candidates or any approved products;
- the loss of key employees;
- the introduction of technological innovations or new commercial products by our competitors;
- changes in estimates or recommendations by securities analysts, if any, who cover our common stock;
- future sales of our common stock;
- changes in the structure of health care payment systems; and
- period-to-period fluctuations in our financial results.

Moreover, the stock markets in general have experienced substantial volatility that has often been unrelated to the operating performance of individual companies. These broad market fluctuations may also adversely affect the trading price of our common stock. In the past, following periods of volatility in the market price of a company's securities, stockholders have often instituted class action securities litigation against those companies. Such litigation can result

in substantial costs and diversion of management attention and resources, which could significantly harm our profitability and reputation.

The sale of our common stock to LPC may cause dilution and the sale of the shares of common stock acquired by LPC could cause the price of our common stock to decline.

In connection with entering into the LPC Purchase Agreement, we authorized the sale to LPC of up to 4,137,418 shares of our common stock and the issuance of an additional 362,582 shares of our common stock as a commitment fee. The number of shares ultimately offered for sale by LPC is dependent upon the number of shares purchased by LPC under the LPC Purchase Agreement. The purchase price for the common stock to be sold to LPC pursuant to the LPC Purchase Agreement will fluctuate

based on the price of our common stock. All 4.5 million shares of our common stock which may be sold by us to LPC under the LPC Purchase Agreement are expected to be freely tradable. Depending upon market liquidity at the time, a sale of shares by LPC at any given time could cause the trading price of our common stock to decline. We can elect to direct purchases by LPC in our sole discretion but no sales to LPC may occur if the purchase price for our common stock under the LPC Purchase Agreement is below \$1.50 per share or certain other limited events of default occur (including if the registration statement for such shares ceases to remain effective or be available) and therefore, LPC may ultimately purchase all or some of the 4,137,418 shares of common stock. As of November 5, 2010, we have sold approximately 2.2 million shares to LPC under the LPC Purchase Agreement. After LPC acquires shares under the LPC Purchase Agreement, it may sell all, some or none of such shares. Therefore, sales to LPC by us under the LPC Purchase Agreement may result in substantial dilution to the interests of other holders of our common stock. The sale of a substantial number of shares of our common stock, or anticipation of such sales, by LPC could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

The sale of our common stock and common stock underlying warrants to the 2010 Private Placement Investors could cause the price of our common stock to decline.

In connection with the 2010 Private Placement, we issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. In connection with the 2010 Private Placement, the Placement Agent was issued one warrant, with an exercise price of \$3.075 per share, to purchase 97,952 shares of our common stock. The warrant issued to the Placement Agent may not be exercised until the sixth month anniversary of the issuance date of August 12, 2010. The resale of all 9,893,180 shares which have been sold or upon exercise of the warrants may be sold by us to the 2010 Private Placement Investors and the Placement Agent has been registered on a Form S-1, which was initially declared effective by the SEC on August 31, 2010. An amendment to such registration statement is being filed with the SEC at about the same time as the filing of the amendment to the registration statement of which this prospectus is a part. Depending upon market liquidity at the time, a sale of shares under this offering at any given time could cause the trading price of our common stock to decline. Sales of our common stock to the 2010 Private Placement Investors and the Placement Agent upon exercise of the warrants they received in connection with 2010 Private Placement by us may result in substantial dilution to the interests of other holders of our common stock. The sale of a substantial number of shares of our common stock, or anticipation of sales, by the 2010 Private Placement Investors and the Placement Agent could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

Our stock is a penny stock. Trading of our stock may be restricted by the SEC's penny stock regulations and the FINRA's sales practice requirements, which may limit a stockholder's ability to buy and sell our stock.

Our common stock is a penny stock. The SEC has adopted Rule 15g-9 under the Exchange Act which generally defines "penny stock" to be any equity security that has a market price less than \$5.00 per share or an exercise price of less than \$5.00 per share, subject to certain exceptions. Our securities are covered by the penny stock rules, which impose additional sales practice requirements on broker-dealers who sell to persons other than established customers and institutional accredited investors. The penny stock rules require a broker-dealer, prior to a transaction in a penny stock not otherwise exempt from the rules, to deliver a standardized risk disclosure document in a form prepared by

the SEC which provides information about penny stocks and the nature and level of risks in the penny stock market. The broker-dealer also must provide the customer with current bid and offer quotations for the penny stock, the compensation of the broker-dealer and its salesperson in the transaction and monthly account statements showing the market value of each penny stock held in the customer's account. The bid and offer quotations, and the broker-dealer and salesperson compensation information, must be given to the customer orally or in writing prior to effecting the transaction and must be given to the customer in writing before or with the customer's confirmation. In addition, the penny stock rules require that prior to a transaction in a penny stock not otherwise exempt from these rules, the broker-dealer must make a special written determination that the penny stock is a suitable investment for the purchaser and receive the purchaser's written agreement to the transaction. These disclosure requirements may have the effect of reducing the level of trading activity in the secondary market for the stock that is subject to these penny stock rules. Consequently, these penny stock rules may affect the ability of broker-dealers to trade our securities. We believe that the penny stock rules discourage investor interest in and limit the marketability of our common stock.

In addition to the "penny stock" rules promulgated by the SEC, the Financial Industry Regulatory Authority, or FINRA, has adopted rules that require that in recommending an investment to a customer, a broker-dealer must have reasonable grounds for believing that the investment is suitable for that customer. Prior to recommending speculative low priced securities to their non-institutional customers, broker-dealers must make reasonable efforts to obtain information about the customer's financial

status, tax status, investment objectives and other information. Under interpretations of these rules, the FINRA believes that there is a high probability that speculative low priced securities will not be suitable for at least some customers. The FINRA requirements make it more difficult for broker-dealers to recommend that their customers buy our common stock, which may limit your ability to buy and sell our stock.

We can issue shares of preferred stock that may adversely affect the rights of a stockholder of our common stock.

Our certificate of incorporation authorizes us to issue up to 15,000,000 shares of preferred stock with designations, rights and preferences determined from time-to-time by our board of directors. Accordingly, our board of directors is empowered, without stockholder approval, to issue preferred stock with dividend, liquidation, conversion, voting or other rights superior to those of stockholders of our common stock.

Anti-takeover provisions under Delaware law, in our stockholder rights plan and in our certificate of incorporation and bylaws may prevent or complicate attempts by stockholders to change the board of directors or current management and could make a third-party acquisition of us difficult.

We are incorporated in Delaware. Certain anti-takeover provisions of Delaware law as currently in effect may make a change in control of our Company more difficult, even if a change in control would be beneficial to the stockholders. Our board of directors has the authority to issue up to 15,000,000 shares of preferred stock, none of which are issued or outstanding. The rights of holders of our common stock are subject to the rights of the holders of any preferred stock that may be issued. The issuance of preferred stock could make it more difficult for a third-party to acquire a majority of our outstanding voting stock. Our

charter contains provisions that may enable our management to resist an unwelcome takeover attempt by a third party, including: a prohibition on actions by written consent of our stockholders; the fact that stockholder meetings must be called by our board of directors; and provisions requiring stockholders to provide advance notice of proposals. Delaware law also prohibits corporations from engaging in a business combination with any holders of 15% or more of their capital stock until the holder has held the stock for three years unless, among other possibilities, the board of directors approves the transaction. Our board of directors may use these provisions to prevent changes in the management and control of our Company. Also, under applicable Delaware law, our board of directors may adopt additional anti-takeover measures in the future.

We are a party to a stockholder rights plan, also referred to as a poison pill, which is intended to deter a hostile takeover of us by making such proposed acquisition more expensive and less desirable to the potential acquirer. The stockholder rights plan and our certificate of incorporation and bylaws, as amended, contain provisions that may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares. These provisions could limit the price that investors might be willing to pay in the future for shares of our common stock.

FORWARD-LOOKING STATEMENTS

In this prospectus, in other filings with the SEC, and in press releases and other public statements by our officers throughout the year, we make or will make statements that plan for or anticipate the future. These “forward-looking statements,” within the meaning of the Private Securities Litigation Reform Act of 1995, include statements about our future business plans and strategies, as well as other statements that are not historical in nature. These forward-looking statements are based on our current expectations.

In some cases, these statements can be identified by the use of terminology such as “believes,” “expects,” “anticipates,” “plans,” “may,” “might,” “will,” “could,” “should,” “would,” “projects,” “anticipates,” “predicts,” “intends,” “continues,” “opportunity” or the negative of these terms or other comparable terminology. All such statements, other than statements of historical facts, including our financial condition, future results of operations, projected revenues and expenses, business strategies, operating efficiencies or synergies, competitive positions, growth opportunities for existing intellectual properties, technologies, products, plans, and objectives of management, markets for our securities, and other matters, are about us and our industry that involve substantial risks and uncertainties and constitute forward-looking statements for the purpose of the safe harbor provided by Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act. Such forward-looking statements, wherever they occur, are necessarily estimates reflecting the best judgment of our senior management on the date on which they were made, or if no date is stated, as of the date of the filing made with the SEC in which such statements were made. You should not place undue reliance on these statements, which only reflect information available as of the date that they were made. Our business’ actual operations, performance, development and results might differ materially from any forward-looking statement due to various known and unknown risks, uncertainties, assumptions and contingencies, including those described in the section titled “Risk Factors,” and including, but not limited to, the following:

- our need for, and our ability to obtain, additional funds;
- uncertainties relating to clinical trials and regulatory reviews;
- our dependence on a limited number of therapeutic compounds;
- the early stage of the products we are developing;
- the acceptance of any of our future products by physicians and patients;
- competition and dependence on collaborative partners;
- loss of key management or scientific personnel;
- our ability to obtain adequate intellectual property protection and to enforce these rights;
- our ability to avoid infringement of the intellectual property rights of others; and
- the other factors and risks described under the section captioned “Risk Factors,” as well as other factors not identified therein.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, the factors discussed in this prospectus, in other filings with the SEC and in press releases and other public statements by our officers throughout the year, could cause actual results or outcomes to differ materially and/or adversely from those expressed in any forward-looking statements made by us or on our behalf, and therefore we cannot guarantee future results, levels of activity, performance or achievements and you should not place undue reliance on any such forward-looking statements. We cannot give you any assurance that such forward-looking statements will prove to be accurate and such forward-looking events may not occur. In light of the significant uncertainties inherent in such forward-looking statements, you should not regard the inclusion of this information as a representation by us or any other person that the results or conditions described in those statements or our objectives and plans will be achieved.

All subsequent forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to herein. Unless required by U.S. federal securities laws and the rules and regulations of the SEC, we do not undertake any obligation and disclaim any intention to update or release publicly any revisions to these forward-looking statements after the date of this prospectus to reflect later events or circumstances or to reflect the occurrence of unanticipated events or any other reason.

USE OF PROCEEDS

The net proceeds from this offering, after deducting the placement agent's fees and our expenses, was approximately \$6.9 million, based on a public offering price of \$2.00 per share. We may receive proceeds of up to approximate \$9.2 million to the extent that the Series A Warrants and Series B Warrants issued under the Direct Offering are fully exercised for cash. We have used the net proceeds from the offering to fund part of our capital expenditure program and for other corporate purposes. In this regard, we have used the net proceeds of this offering to fund our research and development efforts, including clinical trials for our drug candidates, and for general corporate purposes, including working capital. The amounts and timing of these expenditures will depend on a number of factors, such as the timing and progress of our research and development efforts, technological advances and the competitive environment for our drug candidates. Pending these uses, we intend to invest the net proceeds in investment-grade, interest-bearing securities.

DETERMINATION OF OFFERING PRICE

The last reported sale price of our common stock on the Nasdaq Capital Market on November 22, 2010 was \$3.59 per share. The Series A Warrants, which will expire on December 22, 2014, have an exercise price of \$2.45 per share, and the Series B Warrants, which will expire on June 22, 2011, have an exercise price of \$2.45 per share. This exercise price was principally determined through negotiations among us, the placement agent and the investors.

The principal factors considered in determining the public offering price of the units sold in the Direct Offering, and the terms and conditions of the Direct Offering Purchase Agreement, Placement Agent Agreement, the Series A Warrants and the Series B Warrants include:

- the market price and volatility of our common stock;
- our need to obtain financing in an efficient and expeditious manner in order to fund our operations and research and development programs and their related costs;
- the immediate and substantial dilution of investors in this offering;
- the information set forth in this prospectus and otherwise available to the placement agent and investors;
- our history and prospects and the history of, and prospects for, the industry in which we compete;
- our past and present financial performance;
- our prospects for future earnings and the present state of our development;
- the general condition of the securities markets at the time of this offering;
- the recent market prices of, and demand for, publicly traded common stock of generally comparable companies; and
- other factors deemed relevant by the placement agent, investors and us.

DILUTION

If you exercise your Series A Warrants and Series B Warrants from the Direct Offering, your interest will be diluted to the extent of the difference between the exercise price per share you pay and the net tangible book value per share of our common stock immediately after taking into account the warrant exercise. Our net tangible book value as of August 31, 2010, was \$44,896, or \$0.00 per share of common stock. Net tangible book value per share is calculated by subtracting our total liabilities of approximately \$17.6 million from our total tangible assets, which is total assets of approximately \$24.4 million less intangible assets of approximately \$6.8 million, and dividing this amount by the number of shares of common stock outstanding as of August 31, 2010 of approximately 30.1 million. Assuming the exercise of all outstanding Series A Warrants and Series B Warrants as of August 31, 2010, to purchase 3,698,808 shares of our common stock at an exercise price of \$2.45 per share, our adjusted net tangible book value as of August 31, 2010 would have been approximately \$9.1 million, or \$0.27 per share of common stock. This would represent an immediate increase in the net tangible book value of \$0.27 per share to our existing stockholders and an immediate and substantial dilution in the pro forma net tangible book value of \$2.18 per share of common stock to warrant holders that exercise their warrants. The following table illustrates this calculation on a per share basis:

| | | |
|--|------|------|
| Warrant exercise price | \$ | 2.45 |
| Net tangible book value per share as of August 31, 2010 | 0.00 | |
| Increase per share attributable to exercise of warrants | 0.27 | |
| As adjusted net tangible book value per share after warrant exercise | | 0.27 |
| Net dilution per share to warrant holders that exercise warrants | \$ | 2.18 |

The information in the table above is provided for illustrative purposes and assumes that all of the warrants in the aggregate amount of 3,698,808 are exercised at an exercise price of \$2.45 per share.

The information above and in the foregoing table is based upon 30,076,758 shares of our common stock outstanding as of August 31, 2010. The information above and in the foregoing table excludes:

- 1,391,288 shares of our common stock issuable upon the exercise of options outstanding under our stock option plans at a weighted average exercise price of \$14.25 per share;
- 2,697,228 shares of our common stock available for future issuance under our stock option plans;
- 6,599,469 shares of our common stock issuable upon exercise of various outstanding warrants at a weighted average exercise price of \$3.10 per share;
- 74,951 shares of our common stock issuable upon exercise of placement agent warrants issued in connection with the Directed Offering at an exercise price of \$2.50 per share;
- 136,620 shares issued pursuant to warrants exercised subsequent to August 31, 2010; and

· 293,420 shares issued pursuant to the equity line with LPC subsequent to August 31, 2010.

CAPITALIZATION

The following table sets forth our cash and cash equivalents and our capitalization as of August 31, 2010:

- on an actual basis; and
- on an as adjusted basis to give effect to the 3,698,808 shares of common stock issuable upon the exercise of the Series A Warrants and Series B Warrants issued to the Direct Offering Investors as if the warrant exercises had occurred on August 31, 2010.

This table should be read in conjunction with “Use of Proceeds” and our consolidated financial statements and the accompanying notes, which are a part of this prospectus.

| | As of August 31, 2010 | |
|---|-----------------------|---------------|
| | Actual | As Adjusted |
| Cash, cash equivalents and marketable securities | \$ 16,953,524 | \$ 26,015,604 |
| Long-term debt | \$ 1,811 | \$ 1,811 |
| Stockholders' equity: | | |
| Common stock, \$0.001 par value, 150,000,000 shares authorized, 30,076,758 issued and outstanding, actual; 33,850,517 issued and outstanding, as adjusted | \$ 30,077 | \$ 33,776 |
| Preferred stock, \$0.001 par value, 15,000,000 shares authorized, none issued and outstanding, actual and as adjusted | — | — |
| Additional paid-in capital | 47,617,449 | 56,675,830 |
| Accumulated other comprehensive income | (7,854) | (7,854) |
| Accumulated deficit | (40,806,831) | (40,806,831) |
| Total stockholders' equity | \$ 6,832,841 | \$ 15,894,921 |

The number of shares of our common stock to be in the actual and as adjusted columns in the table above excludes the following shares of our common stock as of August 31, 2010:

- 1,391,288 shares of our common stock issuable upon the exercise of options outstanding under our stock option plans at a weighted average exercise price of \$14.25 per share;
- 2,697,228 shares of our common stock available for future issuance under our stock option plans;

- 6,599,469 shares of our common stock issuable upon exercise of various outstanding warrants at a weighted average exercise price of \$3.10 per share;
- 74,951 shares of our common stock issuable upon exercise of placement agent warrants issued in connection with the Directed Offering at an exercise price of \$2.50 per share;
- 136,620 shares issued pursuant to warrants exercised subsequent to August 31, 2010; and
- 293,420 shares issued pursuant to the equity line with LPC subsequent to August 31, 2010.

MARKET PRICE AND DIVIDEND INFORMATION

In connection with the closing of the 2009 Merger, our common stock commenced trading on the NASDAQ Capital Market on September 30, 2009, under the ticker symbol “RPTPD” with 18,822,162 shares outstanding. Effective October 27, 2009, our ticker symbol changed to “RPTP.” There is no public trading market for our warrants. The closing price for our common stock on November 22, 2010 was \$3.59.

The following table sets forth the range of high and low sales prices of our common stock for the quarterly periods indicated, as reported by NASDAQ. Such quotations represent inter-dealer prices without retail mark up, mark down or commission and may not necessarily represent actual transactions.

| | High | Low |
|---|----------|---------|
| Year Ended August 31, 2010: | | |
| First Quarter (through September 29)* | \$ 7.14 | \$ 3.23 |
| First Quarter (September 30 – November 30, 2009) | 4.90 | 1.16 |
| Second Quarter (December 1, 2009 – February 28, 2010) | 3.30 | 1.75 |
| Third Quarter (March 1 – May 31, 2010) | 3.88 | 1.41 |
| Fourth Quarter (June 1, 2010 – August 31, 2010) | 3.57 | 2.37 |
| Year Ended August 31, 2009: | | |
| First Quarter * | \$ 11.73 | \$ 2.72 |
| Second Quarter * | 5.95 | 2.72 |
| Third Quarter * | 7.65 | 2.55 |
| Fourth Quarter | 11.73 | 1.19 |

* Market prices reported have been adjusted to give retroactive effect to material changes resulting from the reverse stock split that occurred immediately prior to the consummation of the 2009 Merger on September 29, 2009 by multiplying the reported sales prices for such periods by 17.

Holders of Record

As of November 5, 2010, there were approximately 83 holders of record of our common stock and 30,213,378 shares of our common stock outstanding, excluding shares held in book-entry form through The Depository Trust Company, and we estimate that the number of beneficial owners of shares of our common stock was approximately 5,400 as of such date. Additionally, on such date, options, held by 64 persons to acquire up to, in the aggregate, 1,934,846 shares, and warrants held by 53 persons to acquire up to, in the aggregate, 10,236,609 shares, of our common stock, were outstanding.

Dividends

We have never declared or paid cash dividends on our common stock and do not anticipate paying any cash dividends on our shares of common stock in the foreseeable future. We expect to retain future earnings, if any, for use in our development activities and the operation of our business. The payment of any future cash dividends will be subject to

the discretion of our board of directors and will depend, among other things, upon our results of operations, financial condition, cash requirements, prospects and other factors that our board of directors may deem relevant. Additionally, our ability to pay future cash dividends may be restricted by the terms of any future financing.

DESCRIPTION OF BUSINESS

We believe that we are building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Our product portfolio includes both candidates from our proprietary drug targeting platforms and in-licensed and acquired product candidates.

Our current pipeline includes three clinical development programs which we are actively developing. We also have three other clinical-stage product candidates, for which we are seeking business development partners but are not actively developing, and we have four preclinical product candidates we are developing, three of which are based upon our proprietary drug-targeting platforms.

Clinical Development Programs

Our three active clinical development programs are based on an existing therapeutic that we are reformulating for potential improvement in safety and/or efficacy and for application in new disease indications. These clinical development programs include the following:

- DR Cysteamine for the potential treatment of nephropathic cystinosis, or cystinosis, a rare genetic disorder;
- DR Cysteamine for the potential treatment of non-alcoholic steatohepatitis, or NASH, a metabolic disorder of the liver; and
- DR Cysteamine for the potential treatment of Huntington's Disease, or HD, an inherited neurodegenerative disorder.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners:

- Convivia™ for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with aldehyde dehydrogenase, or ALDH2 deficiency, an inherited metabolic disorder; and
- Tezampanel and NGX426, non-opioids for the potential treatment of migraine, acute pain, and chronic pain.

Preclinical Product Candidates

Our preclinical platforms consist of targeted therapeutics, which we are developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer. These preclinical platforms include the following:

- Our receptor-associated protein, or RAP, platform consists of: HepTide™ for the potential treatment of primary liver cancer and other liver diseases; and NeuroTrans™ to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.
- Our mesoderm development protein, or Mesd, platform consists of WntTide™ for the potential treatment of breast cancer.

We are also examining our glutamate receptor antagonists, tezampanel and NGX426, for the potential treatment of thrombosis disorder.

Future Activities

Over the next 12 months, we plan to conduct research and development activities based upon our DR Cysteamine clinical programs and continued development of our preclinical product candidates. We also plan to seek business development partners for our Convivia™ product candidate and Tezampanel and NGX426. We may also develop future in-licensed technologies and acquired technologies. A brief summary of our primary objectives in the next 12 months for our research and development

activities is provided below. There can be no assurances that our research and development activities will be successful. In addition, if we do not raise additional funds, we may not be able to continue as a going concern.

Clinical Development Programs

We develop clinical-stage drug product candidates which are: internally discovered therapeutic candidates based on our novel drug delivery platforms and in-licensed or purchased clinical-stage products which may be new chemical entities in mid-to-late stage clinical development, currently approved drugs with potential efficacy in additional indications, and treatments that we could repurpose or reformulate as potentially more effective or convenient treatments for a drug's currently approved indications.

Lead Clinical Development Program: Development of DR Cysteamine for the Potential Treatment of Nephropathic Cystinosis or Cystinosis

Our DR Cysteamine product candidate is a proprietary delayed-release, enteric-coated microbead formulation of cysteamine bitartrate contained in a gelatin capsule. We are investigating DR Cysteamine for the potential treatment of cystinosis.

Immediate-release cysteamine bitartrate, a cystine-depleting agent, is currently the only FDA and the EMA, approved drug to treat cystinosis, a rare genetic disease. Immediate-release cysteamine has been reported to be effective at preventing or delaying kidney failure and other serious health problems in cystinosis patients. However, we believe that patient compliance is challenging due to the requirement for every six-hour dosing and gastrointestinal side effects. Our DR Cysteamine for the potential treatment of cystinosis is designed to mitigate some of these difficulties. It is expected to be dosed twice daily, compared to the current every-six-hour dosing schedule. In addition, DR Cysteamine is designed to pass through the stomach and deliver the drug directly to the small intestine, where it is more easily absorbed into the bloodstream and may result in fewer gastrointestinal side effects.

The EMA and FDA granted orphan drug designation for DR Cysteamine for the treatment of cystinosis in 2010 and 2006, respectively.

In June 2009, we commenced our Phase 2b clinical trial of DR Cysteamine in cystinosis, in which we enrolled nine cystinosis patients with histories of compliance using the currently available immediate-release form of cysteamine bitartrate. The clinical trial, which was conducted at the University of California at San Diego, or UCSD, evaluated safety, tolerability, pharmacokinetics and pharmacodynamics of a single dose of DR Cysteamine in patients. In November 2009, we released the data from the study which indicated improved tolerability and the potential to reduce total daily dosage and administration frequency compared to immediate-release cysteamine bitartrate.

On June 28, 2010, we commenced our Phase 3 clinical trial, designed as a multi-center, randomized, crossover, outpatient study of the safety, tolerability, pharmacokinetics, or PK, and pharmacodynamics, or PD, of every 12-hour DR Cysteamine compared to immediate-release cysteamine bitartrate in cystinosis patients. The design of our Phase 3

clinical trial is a result of discussions with the FDA under a Special Protocol Assessment, or SPA, process by which the FDA provided significant guidance on trial protocol design, clinical endpoints, and statistical analyses. The primary endpoint of our study is the steady-state white blood cell, or WBC, cystine levels of patients taking DR Cysteamine compared to immediate-release cysteamine bitartrate. Secondary endpoints are the safety and tolerability of DR Cysteamine and the comparability of steady-state PK of DR Cysteamine and immediate-release cysteamine bitartrate in cystinosis patients. Our Phase 3 clinical trial is being conducted at nine sites in North America and Europe. We expect to enroll at least 30 patients. Patients who complete the nine-week clinical trial will be offered enrollment into our long-term follow-on study. We anticipate that our Phase 3 clinical trial enrollment will be completed in December 2010. If DR Cysteamine is approved by the FDA, we plan to commercialize DR Cysteamine in the U.S. by ourselves. However, we may enter into marketing partnerships for certain markets outside of the U.S.

Development of DR Cysteamine for the Potential Treatment of Non-Alcoholic Steatohepatitis or NASH

In October 2008, we commenced a clinical trial in collaboration with UCSD to investigate a prototype formulation of DR Cysteamine for the treatment of NASH in juvenile patients. In May 2010, we presented positive Phase 2a clinical trial results from our pilot study of delayed-release cysteamine bitartrate in 11 adolescent patients with NASH, a progressive form of liver disease believed to affect 5% to 11% of the U.S. population. The results were presented at the Digestive Disease Week 2010 conference in New Orleans, Louisiana on May 2, 2010. Our open-label Phase 2a clinical trial was conducted under a

collaboration agreement with UCSD at UCSD's General Clinical Research Center. Eligible patients with baseline levels of the liver enzymes alanine transaminase, or ALT, and aspartate aminotransferase, or AST, that were at least twice that of normal levels, were enrolled to receive twice-daily, escalating oral doses of up to 1,000 mg of delayed-release cysteamine bitartrate (a prototype of our DR Cysteamine) for six months, followed by a six-month post-treatment monitoring period.

Patients showed a marked decline in ALT levels during the treatment period with 7 of 11 patients achieving a greater than 50% reduction and 6 of 11 reduced to within normal range. AST levels also saw significant improvements with patients averaging 41% reduction by the end of the treatment phase. The reduction in liver enzymes was largely sustained during the 6 month post-treatment monitoring phase. Other important liver function markers showed positive trends. Levels of cytokeatin 18, a potential marker of disease activity in Non-alcoholic Fatty Liver Disease, or NAFLD, decreased by an average of 45%. Adiponectin levels increased by an average of 35% during the treatment period. Reduced adiponectin levels are thought to be a marker of the pathogenesis and progression of NASH. Body Mass Index, or BMI, did not change significantly during both the treatment and post-treatment phases. Delayed-release cysteamine bitartrate demonstrated a strong, favorable safety profile, with mean gastrointestinal symptom scores of 1.1 at baseline and 0.7 after 6 months of treatment using a rating system in which the maximum score of 14 indicates most severe gastrointestinal symptoms.

There are no currently approved drug therapies for NASH, and patients are limited to lifestyle changes such as diet, exercise and weight reduction to manage the disease. DR Cysteamine may provide a potential treatment option for patients with NASH.

Although NASH is most common in insulin-resistant obese adults with diabetes and abnormal serum lipid profiles, its prevalence is increasing among juveniles as obesity rates rise within this patient population. Although most patients are asymptomatic and feel healthy, NASH causes decreased liver function and can lead to cirrhosis, liver failure and end-stage liver disease.

We are currently working with our clinical trial material manufacturer to provide an appropriate formulation of DR Cysteamine for our next potential clinical trial in NASH and are preparing an IND submission in 2011 in anticipation of such clinical trial. Although it is our intention to continue the clinical development of DR Cysteamine in NASH, we are currently not funded for, and therefore do not have a timetable for, the initiation of a Phase 2b clinical trial. We are in early stages of discussions to co-develop or partner the clinical development of DR Cysteamine in NASH.

Development of DR Cysteamine for the Potential Treatment of Huntington's Disease or HD

Huntington's Disease, or HD, is a fatal, inherited degenerative neurological disease affecting about 30,000 people in the U.S. and a comparable number of people in Europe. We are not aware of any treatment for HD other than therapeutics that minimize symptoms such as the uncontrollable movements and mood swings resulting from HD. We are collaborating with a French institution, CHU d' Angers, on a Phase 2 clinical trial investigating DR Cysteamine in HD patients, which began in October 2010. We are providing the clinical trial materials for the study, which is sponsored by CHU d' Angers and funded in part by a grant from the French government. Eight clinical sites in France

are being set up by CHU d' Angers for a 96 patient, placebo-controlled, 18-month trial, followed by an open-label trial with all placebo patients rolling onto DR Cysteamine and all non-placebo patients continuing on DR Cysteamine for up to another 18 months. The primary end point of the trial will be based upon the Unified Huntington's Disease Rating Scale, or UHDRS. We were granted Orphan Drug Designation in the U.S. by the FDA for cysteamine as a potential treatment for HD in 2008 and are in the process of applying for Orphan Drug Designation in the E.U.

In June 2010, we acquired an exclusive worldwide license to intellectual property related to the potential treatment of Huntington's Disease from the Weizmann Institute of Science in Israel and Niigata University in Japan. The Weizmann and Niigata patents cover the use of transglutaminase inhibitors, a class of molecules chemically similar to cysteamine, in the potential treatment of Huntington's Disease and other neurological disorders. These patents add to our portfolio of intellectual property related to our programs utilizing DR Cysteamine.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners.

Convivia™ for Liver Aldehyde Dehydrogenase Deficiency

Convivia™ is our proprietary oral formulation of 4-methylpyrazole, or 4-MP, intended for the potential treatment of acetaldehyde toxicity resulting from alcohol consumption in individuals with ALDH2 deficiency, which is an inherited disorder of the body's ability to breakdown ethanol, commonly referred to as alcohol intolerance. 4-MP is presently marketed in the U.S. and E.U. in an intravenous form as an anti-toxin. Convivia™ is designed to lower systemic levels of acetaldehyde (a carcinogen) and reduce symptoms, such as tachycardia and flushing, associated with alcohol consumption by ALDH2-deficient individuals.

Convivia™ is a capsule designed to be taken approximately 30 minutes prior to consuming an alcoholic beverage.

In 2008, we completed a Phase 2a dose escalation clinical trial of oral 4-MP with ethanol in ALDH2 deficient patients. The study results demonstrated that the active ingredient in Convivia™ significantly reduced heart palpitations (tachycardia), which are commonly experienced by ALDH2 deficient people who drink, at all dose levels tested. The study also found that the 4-MP significantly reduced peak acetaldehyde levels and total acetaldehyde exposure in a subset of the study participants who possess specific genetic variants of the liver ADH and ALDH2 enzymes. We believe that this subset represents approximately one-third of East Asian populations.

In June 2010, we entered into an exclusive agreement with Uni Pharma Co., Ltd., or Uni Pharma to commercialize Convivia™ in Taiwan. Under terms of the agreement, we will grant to Uni Pharma an exclusive license under all relevant patent applications, trademarks and future patents controlled by us to market Convivia™ in Taiwan, with an option to expand the license to South Korea under the same terms. Uni Pharma will register Convivia™ for drug licensure for existing indications and will conduct a clinical trial and register Convivia™ for acetaldehyde toxicity resulting from ALDH2 deficiency. Uni Pharma will be responsible for marketing and sales activities for the commercialization of Convivia™ in the markets covered under the license agreement. We continue to seek potential partners in other Asian countries to continue clinical development of Convivia™ in those countries.

Tezampanel and NGX426 for the Potential Treatment of Migraine and Pain

Tezampanel and NGX426, the oral prodrug of tezampanel, are what we believe to be first-in-class compounds that may represent novel treatments for both pain and non-pain indications. Tezampanel and NGX426 are receptor antagonists that target and inhibit a specific group of receptors—the AMPA and kainate glutamate receptors—found in the brain and other tissues. While normal glutamate production is essential, excess glutamate production, either through injury or disease, has been implicated in a number of diseases and disorders. Published data show that during a migraine, increased levels of glutamate activate AMPA and kainate receptors, result in the transmission of pain and, in many patients, the development of increased pain sensitivity. By acting at both the AMPA and kainate receptor sites to competitively block the binding of glutamate, tezampanel and NGX426 have the potential to treat a number of diseases and disorders. These include chronic pain, such as migraine and neuropathic pain, muscle spasticity and a condition known as central sensitization, a persistent and acute sensitivity to pain.

Results of a Phase 2b clinical trial of tezampanel were released in October 2007. In the trial, a single dose of tezampanel given by injection was statistically significant compared to placebo in treating acute migraine headache. This was the sixth Phase 2 trial in which tezampanel has been shown to have analgesic activity. Based on a review of the Phase 2 data, the FDA has agreed that tezampanel may move forward into a Phase 3 program for acute migraine.

In December 2008, results of NGX426 in a human experimental model of cutaneous pain, hyperalgesia and allodynia demonstrated a statistically significant reduction in spontaneous pain, hyperalgesia and allodynia compared to placebo following injections of capsaicin (i.e., chili oil) under the skin. In February 2009, results from a Phase 1 multiple dose trial of NGX426 showed that the compound is safe and well-tolerated in healthy male and female subjects when dosed once daily for five consecutive days.

In November 2009, we announced the presentation of clinical trial data on NGX426 at the 12th International Conference on the Mechanisms and Treatment of Neuropathic Pain. The results of the study led by Mark Wallace, M.D., Professor of Clinical Anesthesiology at the Center for Pain Medicine of the University of California at San Diego, suggested that NGX426 has the potential to be effective in a variety of neuropathic pain states, which are caused by damage to or dysfunction of the peripheral or central nervous system rather than stimulation of pain receptors.

We are currently seeking out-licensing partners for the migraine and pain programs and no development costs will be incurred for further development of these indications.

Preclinical Product Candidates

We are also developing a drug-targeting platform based on the proprietary use of RAP and Mesd. We believe that these proteins may have therapeutic applications in cancer, infectious diseases and neurodegenerative diseases, among others.

These applications are based on the assumption that our targeting molecules can be engineered to bind to a selective subset of receptors with restricted tissue distribution under particular conditions of administration. We believe these selective tissue distributions can be used to deliver drugs to the liver or to other tissues, such as the brain.

In addition to selectively transporting drugs to specific tissues, selective receptor binding constitutes a means by which receptor function might be specifically controlled, either through modulating its binding capacity or its prevalence on the cell surface. Mesd is being engineered for this latter application.

HepTide™ for Hepatocellular Carcinoma or HCC and Other Liver Diseases

Drugs currently used to treat primary liver cancer are often toxic to other organs and tissues. We believe that the pharmacokinetic behavior of RAP (i.e., the determination of the fate or disposition of RAP once administered to a living organism) may diminish the non-target toxicity and increase the on-target efficacy of attached therapeutics.

In preclinical studies of our radio-labeled HepTide™ (a variant of RAP), HepTide™, our proprietary drug-targeting peptide was shown to distribute predominately to the liver. Radio-labeled HepTide™, which was tested in a preclinical research model of HCC at the National Research Council in Winnipeg, Manitoba, Canada, showed 4.5 times more delivery to the liver than the radio-labeled control. Another study of radio-labeled HepTide™ in a non-HCC preclinical model, showed 7 times more delivery to the liver than the radio-labeled control, with significantly smaller amounts of radio-labeled HepTide™ delivery to other tissues and organs.

HCC is caused by the malignant transformation of hepatocytes, epithelial cells lining the vascular sinusoids of the liver, or their progenitors. HepTide™ has shown to bind to lipoprotein receptor-related protein, or LRP1, receptors on hepatocytes. We believe that the pharmacokinetics and systemic toxicity of a number of potent anti-tumor agents may be controlled in this way.

There are additional factors that favor the suitability of RAP as an HCC targeting agent:

- RAP is captured by hepatocytes with efficiency, primarily on first-pass.

· Late-stage HCC is perfused exclusively by the hepatic artery, while the majority of the liver is primarily perfused through the portal vein.

Studies have shown that the RAP receptor, LRP1, is well expressed on human HCC and under-expressed on non-cancerous, but otherwise diseased, hepatocytes. Also, LRP1 expression is maintained on metastasized HCC. These factors will favor delivery of RAP peptide-conjugated anti-tumor agents to tumor cells, whether in the liver or at metastasized sites.

We are evaluating conjugates between HepTide™ and other molecules for testing in vitro and in appropriate preclinical models for the potential treatment of HCC and other liver diseases.

NeuroTrans™ for the Potential Treatment of Diseases Affecting the Brain

Hundreds of known genetic and neurodegenerative diseases affect the brain. Drugs often have difficulty reaching these disease-affected areas because the brain has evolved a protective barrier, commonly referred to as the blood-brain barrier.

Part of the solution to the medical problem of neurodegenerative diseases is the creation of effective brain targeting and delivery technologies. One of the most obvious ways of delivering therapeutics to the brain is via the brain's extensive vascular network. Treating these diseases by delivering therapeutics into the brain in a minimally invasive way, including through a natural receptor mediated transport mechanism called transcytosis, is a vision shared by many researchers and clinicians in the neuroscience and neuromedical fields.

NeuroTrans™ is our proprietary RAP-based technology program to research the delivery of therapeutics across the blood-brain barrier. We believe our NeuroTrans™ platform may provide therapies that will be safer, less intrusive and more effective than current approaches in treating a wide variety of brain disorders.

In preclinical studies, NeuroTrans™ has been conjugated to a variety of protein drugs, including enzymes and growth factors, without interfering with the function of either fusion partner. Studies indicate that radio-labeled NeuroTrans™ may be transcytosed across the blood-brain barrier and that fusions between NeuroTrans™ and therapeutic proteins may be manufactured economically. Experiments conducted in collaboration with Stanford University in 2008 support the NeuroTrans™ peptide's ability to enhance the transport of cargo molecules into the cells that line the blood-brain barrier.

In June 2009, we entered into a collaboration and licensing agreement with F. Hoffman — La Roche Ltd. and Hoffman—La Roche Inc., or Roche, to evaluate therapeutic delivery across the blood-brain barrier utilizing NeuroTrans™. Under the terms of the agreement, Roche has funded studies of select molecules attached to NeuroTrans™. The agreement provides Roche with an exclusive worldwide license to NeuroTrans™ for use in the delivery of diagnostic and therapeutic molecules across the blood-brain barrier. Roche's and our scientists are actively collaborating on the project. We have received an initial upfront payment for the collaboration to cover our portion of the initial studies, and may earn development milestone payments and royalties in exchange for the licensing of NeuroTrans™ to Roche.

WntTide™ for the Potential Treatment of Cancer

Human Mesd is a natural inhibitor of the receptor LRP6. LRP6 has recently been shown to play a role in the progression of some breast tumors. Studies in the laboratory of Professor Guojun Bu, one of our scientific advisors, at the Washington University in St. Louis Medical School support the potential of Mesd and related peptides to target these tumors. These molecules and applications are licensed to us from Washington University.

WntTide™ is our proprietary, Mesd-based peptide that we are developing as a potential therapeutic to inhibit the growth and metastasis of tumors over-expressing LRP5 or LRP6. We have licensed the use of Mesd from Washington University for the potential treatment of cancer and bone density disorders.

In April 2009, Washington University conducted a preclinical study of WntTide™ in a breast cancer model which showed tumor inhibition. The results of this study were presented at the 2nd Annual Wnt Conference in Washington, D.C., in June 2009 and have been published in the peer-reviewed publication, the Proceedings of the National Academy of Sciences, on March 1, 2010. The paper, titled, "LRP6 Overexpression Defines a Class of Breast Cancer Subtype and Is a Target for Therapy," presented results that support the potential efficacy of WntTide™ as a targeted treatment for triple-negative breast cancers, a particularly aggressive and difficult-to-treat indication for recurrent and

metastatic disease. Abnormal Wnt activation, found in 40% to 60% of breast cancers, is often associated with triple-negative breast cancers. We are currently evaluating WntTide™ in a preclinical breast cancer model to inhibit the Wnt-signaling pathway designed to block cancers dependent upon signaling through LRP6, as well as other IND enabling studies.

Tezampanel and NGX426 for the Potential Treatment of Thrombotic Disorder

Research conducted at Johns Hopkins University, or JHU, by Craig Morrell, D.V.M., Ph.D., and Charles Lowenstein, M.D. demonstrated the importance of glutamate release in promoting platelet activation and thrombosis. Research shows that platelets treated with an AMPA/kainate receptor antagonist such as tezampanel or NGX426 are more resistant to glutamate-induced aggregation than untreated platelets. This identifies the AMPA/kainate receptors on platelets targeted by tezampanel or NGX426 as a new antithrombotic target with a different mechanism of action than Plavix®, aspirin or tPA. We have licensed the intellectual property of Tezampanel and NGX 426 for the treatment of thrombotic disorder from JHU and are currently manufacturing drug product for a Phase 1 clinical trial in collaboration with a university hospital anticipated to commence in mid-calendar 2011.

Other Development Areas

Securing Additional and Complementary Technology Licenses from Others

We plan to establish additional research collaborations with prominent universities and research labs currently working on the development of potential targeting molecules, and to secure licenses from these universities and labs for technology resulting from the collaboration. No assurances can be made regarding our ability to establish such collaborations over the next 12 months, or at all. We intend to focus our in-licensing and product candidate acquisition activities on identifying complementary therapeutics, therapeutic platforms that offer a number of therapeutic targets, and clinical-stage therapeutics based on existing approved drugs in order to create proprietary reformulations to improve safety and efficacy or to expand such drugs' clinical indications through additional clinical trials. We may obtain these products through collaborations, joint ventures or through merger and/or acquisitions with other biotechnology companies.

Strategic Acquisitions

Reverse Merger with Raptor Pharmaceuticals Corp.

In July 2009, we, and our then wholly-owned subsidiary ECP Acquisition, Inc., a Delaware corporation, or merger sub, entered into an Agreement and Plan of Merger and Reorganization, or the 2009 Merger Agreement, with Raptor Pharmaceuticals Corp., a Delaware corporation. On September 29, 2009, on the terms and subject to the conditions set forth in the 2009 Merger Agreement, merger sub was merged with and into Raptor Pharmaceuticals Corp. and Raptor Pharmaceuticals Corp. survived such merger as our wholly-owned subsidiary. This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock and changed our corporate name to "Raptor Pharmaceutical Corp."

As of immediately following the effective time of the 2009 Merger, Raptor Pharmaceuticals Corp.'s stockholders (as of immediately prior to such 2009 Merger) owned approximately 95% of our outstanding common stock and our stockholders owned approximately 5% of our outstanding common stock, in each case without taking into account any of our or Raptor Pharmaceuticals Corp.'s shares of common stock, respectively, that were issuable pursuant to outstanding options or warrants of ours or Raptor Pharmaceuticals Corp., respectively, outstanding as of the effective time of the 2009 Merger. Although Raptor Pharmaceuticals Corp. became our wholly-owned subsidiary, Raptor Pharmaceuticals Corp. was the "accounting acquirer" in the 2009 Merger and its board of directors and officers manage and operate the combined company. Our common stock currently trades on the NASDAQ Capital Market under the ticker symbol, "RPTP."

Purchase of Convivia™

In October 2007, prior to the 2009 Merger, Raptor Pharmaceuticals Corp. purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting

liver ALDH2 deficiency, a genetic metabolic disorder. Raptor Pharmaceuticals Corp. hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as the President of its clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what we now call Convivia™, RPC issued to Convivia 46,625 shares of our common stock, an additional 46,625 shares of our common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 8,742 shares of our common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of our common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of our execution of a formulation agreement for manufacturing Convivia™ with Patheon. In March 2008, Raptor Pharmaceuticals Corp. issued to Mr. Daley 23,312 shares of our common stock pursuant to the Convivia purchase agreement as a result of the milestone of our execution of an agreement to supply us with the active pharmaceutical ingredient for Convivia™ and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, RPC issued to Mr. Daley 23,312 shares of our common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone. In July 2010, we issued 11,656 shares of our restricted common stock valued at \$35,551 and paid a \$10,000 cash bonus to Mr. Daley as a result of the execution of the license agreement with Uni Pharma for the development of Convivia™ in Taiwan.

Purchase of DR Cysteamine

In December 2007, prior to the 2009 Merger, through a merger between Encode Pharmaceuticals, Inc., or Encode, and Raptor Therapeutics, RPC purchased certain assets, including the clinical development and commercial rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, RPC issued 802,946 shares of its common stock to the stockholders of Encode, or Encode Stockholders, options, or Encode Options, to purchase up to, in the aggregate, 83,325 shares of its common stock to the optionholders of Encode, or Encode Optionholders, and warrants, or Encode Warrants, to purchase up to, in the aggregate, 256,034 shares of its common stock to the warrantholders of Encode, or Encode Warrantholders, and together with the Encode Stockholders and Encode Optionholders, referred to herein collectively as the Encode Securityholders, as of the date of such agreement. The Encode Securityholders are eligible to receive up to an additional 559,496 shares of our common stock, Encode Options and Encode Warrants to purchase our common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, we received the exclusive worldwide license to DR Cysteamine, referred to herein as the License Agreement, developed by clinical scientists at the University of California at San Diego, or UCSD School of Medicine. In consideration of the grant of the license, we are obligated to pay an annual maintenance fee of \$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we are obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated, among other things, to spend annually at least \$200,000 for the development of products (which we satisfied, as of August 31, 2010 and 2009 by spending approximately \$6.2 million and \$4.1 million, respectively, on such programs) pursuant to the License Agreement. To-date, we have accrued \$470,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Proprietary Rights

We purchased from BioMarin Pharmaceutical Inc., or BioMarin, the intellectual property owned by BioMarin for the research and development of the RAP technologies, including two patents, two pending patent applications and two provisional patent applications in review in the U.S., and countries in Europe and Asia and two trademarks for NeuroTrans™. Subsequent to the purchase from BioMarin, we have filed four additional patent applications for our RAP technologies. As of November 10, 2010, we have 16 patent applications under prosecution in the U.S. and internationally. Two of these applications relate to cysteamine, seven relate to our Convivia™ program and the remaining seven cover our RAP platform. Four patents have been allowed in the U.S. relating to our RAP platform: US 7,700,554 expires in 2022; US 7,560,431 expires in 2023; US 7,569,544 expires in 2023 and US 7,829,537 expires in 2023, and another was allowed in Japan, Australia and Europe which expires in 2022. All other applications are awaiting examination in a variety of countries. We also entered into an exclusive worldwide license

agreement with Washington University for our Mesd program for the treatment of cancer and bone diseases. We fund the prosecution of a patent application covering this technology, which entered national phase in the U.S. and internationally in November 2009. In December 2007, we acquired an exclusive worldwide license agreement to pending patent applications from UCSD relating to our DR Cysteamine program. In March 2008, we amended our license with UCSD to add exclusive worldwide rights to develop DR Cysteamine for the potential treatment of NASH. Through the 2009 Merger, we have a license from Eli Lilly & Co. for the intellectual property related to tezampanel and NGX426 for pain indications and a license of tezampanel and NGX426 for the treatment of thrombotic disorder from JHU. We fund the prosecution of a patent covering this technology, which entered national phase in the U.S. in August 2009. In June 2010, we acquired an exclusive worldwide license to two issued patents related to the treatment of Huntington's Disease and other neurological disorders, from the Weizmann Institute of Science

in Israel and Niigata University in Japan. These two patents, which expire in 2019, cover the use of transglutaminase inhibitors, a class of molecules chemically similar to cysteamine.

Regulatory Exclusivities

Orphan Drug Designation

We have been granted access to an Orphan Drug Designation from the U.S. Food and Drug Administration, or FDA, for use of DR Cysteamine to potentially treat cystinosis and the use of Cysteamine to potentially treat HD and Batten Disease. The Orphan Drug Act of 1983 generally provides incentives, including marketing exclusivity and tax benefits, to companies that undertake development and marketing of products to treat relatively rare diseases, which are defined as diseases for which fewer than 200,000 persons in the U.S. would be likely to receive the treatment. A drug that receives orphan drug status may receive up to seven years of exclusive marketing in the U.S. for that indication. Equivalent European regulations may give us ten years of marketing exclusivity for that indication in Europe. DR Cysteamine has been granted Orphan Drug Designation by the FDA and the European Medicines Agency, or EMA. If we fail to maintain orphan drug exclusivity for some of our drug product candidates, our competitors may sell products to treat the same conditions and our results of operations and revenues will be affected.

Competition

Cystinosis

The only pharmaceutical product currently approved by the FDA and the EMA to treat cystinosis that we are aware of is Cystagon® (rapid release cysteamine bitartrate capsules), marketed in the U.S. by Mylan Pharmaceuticals, and by Recordati and Swedish Orphan International in markets outside of the U.S. Cystagon® was approved by FDA in 1994 and is the standard of care for cystinosis treatment.

While we believe that our DR Cysteamine formulation will be well received in the market due to what we believe will be reduced dose frequency and improved tolerability, if we receive marketing approval, we anticipate that Cystagon® will remain a well-established competitive product which may retain many patients, especially those for whom the dose schedule and tolerability do not pose significant problems.

We are not aware of any pharmaceutical company with an active program to develop an alternative therapy for cystinosis. There are companies developing and/or marketing products to treat symptoms and conditions related to, or resulting from cystinosis, but none developing products to treat the underlying metabolic disorder. Academic researchers in the U.S. and Europe are pursuing potential cures for cystinosis through gene therapy and stem cell therapy, as well as pro-drug approaches as alternatives to cysteamine bitartrate for cystinosis treatment. The development timeline for these approaches is many years.

Huntington's Disease

We are not aware of any currently available treatment alternatives for HD, although there are products available such as Haldol, Klonopin and Xenazine to treat uncontrollable movements and mood swings that result from the disease. There are several pharmaceutical companies pursuing potential cures and treatments for HD, as well as numerous academic- and foundation-sponsored research efforts.

Companies with HD product candidates in development include Medivation, Inc., Amarin, Eli Lilly & Co. and Pfizer. Several other companies have drug candidates in preclinical development. Additionally, nutritional supplements including creatinine and coenzyme Q10 have been investigated as potential treatments for HD. The Huntington Study Group sponsors numerous studies of potential therapies for HD, including coenzyme Q10 and the antibiotic minocycline.

NASH

We are not aware of any currently available treatment options for NASH. Weight loss, healthy diet, abstinence from alcohol and increased physical activity are typically suggested to slow the onset of NASH. There are numerous therapies being studied for NASH, including anti-oxidants (Vitamin E, betaine, Moexipril from Univasc), insulin sensitizing agents (Actos® from Takeda Pharmaceuticals for type 2 diabetes, in an ongoing Phase 3 study for NASH sponsored by University of Texas) and drugs to improve blood flow (Trental® from Aventis for treatment of intermittent claudication, which is reported to have failed to meet endpoints in a Phase 2 study for NASH). Gilead Sciences is developing a pan-caspase inhibitor for NASH. Other products being studied for NASH include Byetta from Amylin, in an ongoing Phase 2/3 study for NASH; and siliphos, or milk thistle, in a UCSD Phase 2 study for NASH.

ALDH2 Deficiency

ALDH2 deficiency affects hundreds of millions of people worldwide and is especially prevalent in East Asian populations. The association of this metabolic disorder with serious health risks, including liver diseases and digestive tract cancers, has been documented in numerous peer-reviewed studies over the last 10 years. We are not aware of any pharmaceutical products currently approved for this indication, either in the U.S. or internationally. However, given the size of the potential patient population and the emerging awareness of this disorder as a serious health risk, we expect there are or will be other pharmaceutical companies, especially those with commercial operations in Asian countries, developing products to treat the symptoms of this condition. Many of these competitors may have greater resources, and existing commercial operations in the Asian countries which we expect will be the primary markets for this product.

Additionally, there are non-pharmaceutical products available such as supplements and traditional remedies, especially in some Asian countries, which are claimed to be effective in reducing the symptoms associated with ALDH2 deficiency and other physical reactions to ethanol consumption. Although we are not aware of any study which has demonstrated the efficacy of such non-pharmaceutical alternatives, these products may compete with our ALDH2 deficiency product candidate if it is approved for marketing.

Migraine

Triptans are the most commonly prescribed drugs for the treatment of moderate to severe migraine. There are currently seven triptans approved for use and Imitrex®, marketed by GlaxoSmithKline, dominates the market. Other triptans are: Zomig®, Maxalt®, Amerge®, Frova™, Axert®, and Relpax®. According to PhRMA's 2008 report, Medicines in Development for Neurologic Disorders, there are more than 30 companies seeking to develop compounds to treat migraine and pain disorders or to obtain additional indications to broaden the use of currently approved pain relieving prescription medications. This list includes most of the large pharmaceutical companies such as Abbott Laboratories, AstraZeneca, Eisai, Elan, Eli Lilly, GlaxoSmithKline, Merck, Pfizer, and Wyeth

Pharmaceuticals as well as small and mid-sized biotechnology companies.

Pain

In the neuropathic pain market, we would compete with companies such as Pfizer, marketing Neurontin and Lyrica®, and Eli Lilly, marketing Cymbalta® in addition to opioids approved for treating neuropathic pain, off-label uses of products to treat neuropathic pain and generic products. Given the size of the neuropathic pain market, approximately \$3.5 billion in 2006 and expected to double by 2016, it is likely that most of the large pharmaceutical companies as well as many biotechnology companies will look to develop compounds to treat neuropathic pain. Since the licensing of tezampanel, Eli Lilly has continued development of more potent and specific molecules (e.g., iGluR5 antagonists) targeting the same receptors as tezampanel and NGX424 and based on the same chemistry (i.e., tetrahydroisoquinoline moiety) as tezampanel and NGX424. Eli Lilly's third generation candidate is currently in Phase 2 studies for osteoarthritis and peripheral neuropathy.

Primary Liver Cancer

Surgical resection of the primary tumor or liver transplantation remains the only curative options for HCC patients. The acute and tragic nature of this aggressive cancer and the widely preserved unmet medical need continues to attract a significant level of interest in finding ways of treating this disease. For example, there are currently over 140 ongoing clinical trials actively recruiting patients with HCC listed in the ClinicalTrials.gov website. Many of these trials are designed to evaluate ways of locally administering chemotherapeutics or various ways of performing surgical resections of the tumors. One drug that was approved in 2007 for treatment of inoperable HCC is currently the standard-of-care for this disease due to its claims of enhancing overall survival time. This enhancement was determined to be minimal in the study population and to be even smaller within the Asian population of inoperable HCC patients. We believe that a number of biotechnology and pharmaceutical companies may have internal programs targeting the development of new therapeutics that may be useful in treating HCC in the future.

Brain Delivery

We believe we will be competing with other pharmaceutical and biotechnology companies that provide, or are attempting to develop product candidates to provide, remedies and treatments for brain and neurodegenerative diseases.

Three approaches are primarily used to solve the problem of reaching the brain with therapeutic compounds:

- Neurosurgery or invasive techniques.
- Pharmacological techniques, which include less than 2% of currently available drugs.
- Physiologically based techniques, such as transcytosis.

Invasive techniques include bone marrow transplants or implants of polymers with drugs imbedded in the material for slow release. These implants extend from the skull surface to deep into brain tissue sites and use a permeation enhancer. Mannitol induced osmotic shock that creates leaks in the blood-brain barrier allowing intravenous administered chemotherapeutics into the brain is used in the treatment of brain tumors, but is not appropriate for administration of drugs for chronic therapies. Companies active in developing treatments based on these invasive technologies include Alza Corporation, Ethypharm, Guilford Pharmaceuticals, Medtronic Inc., Neurotech, and Sumitomo Pharmaceutical.

Other invasive procedures utilize catheter-based delivery of the drug directly into the brain. This technique has proven useful in the treatment of brain tumors, but has not been successful in distributing drugs throughout the entire brain. Amgen Inc. recently conducted clinical trials for the treatment of Parkinson's disease using intrathecal delivery through the use of various catheter/pump techniques.

The physiological route is a popular approach to cross the blood-brain barrier via lipid mediated free diffusion or by facilitated transport. This is the most common strategy used for the development of new neuropharmaceuticals, but has experienced limited success as it requires that the drug have sufficient lipophilic or fat-soluble properties so that it can pass through lipid membranes. The current method of delivery by this route, however, is nonspecific to the brain and side effects are common since most organs are exposed to the drug. Furthermore, many of the potential lipophilic therapeutic molecules are substrates for the blood-brain barrier's multi-drug resistant proteins, which actively transport the therapeutic agent back into the blood. Consequently, large doses need to be used so that sufficient amounts of the drug reach the brain. These high doses can result in significant side effects as the drug is delivered to essentially all tissues of the body, which is extremely inefficient. Companies and organizations that are developing treatments based on various physiological approaches include Angiochem, AramGen Technology, to-BBB, Xenoport Inc., Bioasis, Oregon Health and Science University Neuro-oncology, Xenova Group Ltd., d-Pharm, Neurochem Inc., and Vasogen Inc.

Thrombotic Disorder

A number of anti-platelet drugs are already available on the market. These include the ADP receptor antagonist Plavix, the cyclooxygenase (and hence thromboxane) inhibitor, aspirin, and injectable integrin (IIb/IIIa) blockers such as Integrelin. Each drug has strengths and weaknesses (which predominantly involve excess bleeding). Since anti-thrombotic drugs are a multi-billion dollar market, it is likely that a large number of companies have additional therapies in development.

Because, many of our competitors have greater capital resources and larger overall research and development staffs and facilities, than us, there can be no assurances that we will be successful in competing in the areas discussed above. See the section under “Risk Factors” titled, “If our competitors succeed in developing products and technologies that are more effective than ours, or if scientific developments change our understanding of the potential scope and utility of our drug product candidates, then our technologies and future drug product candidates may be rendered less competitive.”

Government Regulations of the Biotechnology Industry

Regulation by governmental authorities in the U.S. and foreign countries is a significant factor in the development, manufacture, and expected marketing of our drug product candidates and in our ongoing research and development activities. The nature and extent to which such regulation will apply to us will vary depending on the nature of any drug product candidates developed. We anticipate that all of our drug product candidates will require regulatory approval by governmental agencies prior to commercialization.

In particular, human therapeutic products are subject to rigorous preclinical and clinical testing and other approval procedures of the FDA and similar regulatory authorities in other countries. Various federal statutes and regulations also govern or influence testing, manufacturing, safety, labeling, storage, and record-keeping related to such products and their marketing. The process of obtaining these approvals and the subsequent compliance with the appropriate federal statutes and regulations requires substantial time and financial resources. Any failure by us or our collaborators to obtain, or any delay in obtaining, regulatory approval could adversely affect the marketing of any of our drug product candidates, our ability to receive product revenues, and our liquidity and capital resources.

The FDA’s Modernization Act codified the FDA’s policy of granting “fast track” review of certain therapies targeting “orphan” indications and other therapies intended to treat severe or life threatening diseases and having potential to address unmet medical needs. Orphan indications are defined by the FDA as having a prevalence of less than 200,000 patients in the U.S. We anticipate that certain genetic diseases and primary liver cancer which could potentially be treated using our technology could qualify for fast track review under these revised guidelines. There can be no assurances, however, that we will be able to obtain fast track designation and, even with fast track designation, it is not guaranteed that the total review process will be faster or that approval will be obtained, if at all, earlier than would be the case if the drug product candidate had not received fast-track designation.

Before obtaining regulatory approvals for the commercial sale of any of our products under development, we must demonstrate through preclinical studies and clinical trials that the product is safe and efficacious for use in each target indication. The results from preclinical studies and early clinical trials might not be predictive of results that will be obtained in large-scale testing. Our clinical trials might not successfully demonstrate the safety and efficacy of any product candidates or result in marketable products.

In order to clinically test, manufacture, and market products for therapeutic use, we will have to satisfy mandatory procedures and safety and effectiveness standards established by various regulatory bodies. In the U.S., the Public Health Service Act and the Federal Food, Drug, and Cosmetic Act, as amended, and the regulations promulgated thereunder, and other federal and state statutes and regulations govern, among other things, the testing, manufacture, labeling, storage, record keeping, approval, advertising, and promotion of our current and proposed product candidates. Product development and approval within this regulatory framework takes a number of years and involves the expenditure of substantial resources.

The steps required by the FDA before new drug products may be marketed in the U.S. include:

- completion of preclinical studies;
- the submission to the FDA of a request for authorization to conduct clinical trials on an investigational new drug application, or IND, which must become effective before clinical trials may commence;
- adequate and well-controlled Phase 1, Phase 2 and Phase 3 clinical trials to establish and confirm the safety and efficacy of a drug candidate;
- submission to the FDA of a new drug application, or NDA, for the drug candidate for marketing approval; and
- review and approval of the NDA by the FDA before the product may be shipped or sold commercially.

In addition to obtaining FDA approval for each product, each product manufacturing establishment must be registered with the FDA and undergo an inspection prior to the approval of an NDA. Each manufacturing facility and its quality control and manufacturing procedures must also conform and adhere at all times to the FDA's cGMP regulations. In addition to preapproval inspections, the FDA and other government agencies regularly inspect manufacturing facilities for compliance with these requirements. If, as a result of these inspections, the FDA determines that any equipment, facilities, laboratories or processes do not comply with applicable FDA regulations and conditions of product approval, the FDA may seek civil, criminal, or administrative sanctions and/or remedies against us, including the suspension of the manufacturing operations. Manufacturers must expend substantial time, money and effort in the area of production and quality control to ensure full technical compliance with these standards.

Preclinical testing includes laboratory evaluation and characterization of the safety and efficacy of a drug and its formulation. Preclinical testing results are submitted to the FDA as a part of an IND which must become effective prior to commencement of clinical trials. Clinical trials are typically conducted in three sequential phases following submission of an IND. Phase 1 represents the initial administration of the drug to a small group of humans, either patients or healthy volunteers, typically to test for safety (adverse effects), dosage tolerance, absorption, distribution, metabolism, excretion and clinical pharmacology, and, if possible, to gain early evidence of effectiveness. Phase 2 involves studies in a small sample of the actual intended patient population to assess the efficacy of the drug for a specific indication, to determine dose tolerance and the optimal dose range and to gather additional information relating to safety and potential adverse effects. Once an investigational drug is found to have some efficacy and an acceptable safety profile in the targeted patient population, Phase 3 studies are initiated to further establish clinical safety and efficacy of the therapy in a broader sample of the general patient population, in order to determine the overall risk-benefit ratio of the drug and to provide an adequate basis for any physician labeling. During all clinical studies, we must adhere to Good Clinical Practice, or GCP, standards. The results of the research and product development, manufacturing, preclinical studies, clinical studies and related information are submitted in an NDA to the FDA.

The process of completing clinical testing and obtaining FDA approval for a new drug is likely to take a number of years and require the expenditure of substantial resources. If an application is submitted, there can be no assurance that the FDA will review and approve the NDA. Even after initial FDA approval has been obtained, further studies, including post-market studies, might be required to provide additional data on safety and will be required to gain approval for the use of a product as a treatment for clinical indications other than those for which the product was initially tested and approved. Also, the FDA will require post-market reporting and might require surveillance programs to monitor the side effects of the drug. Results of post-marketing programs might limit or expand the further marketing of the products. Further, if there are any modifications to the drug, including changes in indication, manufacturing process, labeling or a change in manufacturing facility, an NDA supplement might be required to be

submitted to the FDA.

The rate of completion of any clinical trials will be dependent upon, among other factors, the rate of patient enrollment. Patient enrollment is a function of many factors, including the size of the patient population, the nature of the trial, the availability of alternative therapies and drugs, the proximity of patients to clinical sites and the eligibility criteria for the study. Delays in planned patient enrollment might result in increased costs and delays, which could have a material adverse effect on us.

We do not know whether our IND for future products or the protocols for any future clinical trials will be accepted by the FDA. We do not know if our clinical trials will begin or be completed on schedule or at all. Even if completed, we do not know if these trials will produce clinically meaningful results sufficient to support an application for marketing approval. The commencement of our planned clinical trials could be substantially delayed or prevented by several factors, including:

- a limited number of, and competition for, suitable patients with particular types of disease for enrollment in clinical trials;
- delays or failures in obtaining regulatory clearance to commence a clinical trial;
- delays or failures in obtaining sufficient clinical materials;
- delays or failures in reaching agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites; and
- delays or failures in obtaining Institutional Review Board, or IRB, approval to conduct a clinical trial at a prospective site.

The completion of our clinical trials could also be substantially delayed or prevented by several factors, including:

- slower than expected rates of patient recruitment and enrollment;
- failure of patients to complete the clinical trial;
- unforeseen safety issues;
- lack of efficacy during clinical trials;
- inability or unwillingness of patients or medical investigators to follow our clinical trial protocols;
- inability to monitor patients adequately during or after treatment; and
- regulatory action by the FDA for failure to comply with regulatory requirements.

Failure to comply with applicable FDA requirements may result in a number of consequences that could materially and adversely affect us. Failure to adhere to approved trial standards and GCPs in conducting clinical trials could cause the FDA to place a clinical hold on one or more studies which would delay research and data collection necessary for product approval. Noncompliance with GCPs could also have a negative impact on the FDA's evaluation of an NDA. Failure to adhere to GMPs and other applicable requirements could result in FDA enforcement action and in civil and criminal sanctions, including but not limited to fines, seizure of product, refusal of the FDA to approve product approval applications, withdrawal of approved applications, and prosecution.

Whether or not FDA approval has been obtained, approval of a product by regulatory authorities in foreign countries must be obtained prior to the commencement of marketing of the product in those countries. The requirements governing the conduct of clinical trials and product approvals vary widely from country to country, and the time required for approval might be longer or shorter than that required for FDA approval. Although there are some procedures for unified filings for some European countries, in general, each country at this time has its own procedures and requirements. There can be no assurance that any foreign approvals would be obtained.

In most cases, if the FDA has not approved a drug product candidate for sale in the U.S., the drug product candidate may be exported for sale outside of the U.S. only if it has been approved in any one of the following: the European Union, Canada, Australia, New Zealand, Japan, Israel, Switzerland and South Africa. Specific FDA regulations govern this process.

In addition to the regulatory framework for product approvals, we and our collaborative partners must comply with federal, state, and local laws and regulations regarding occupational safety, laboratory practices, the use, handling and disposition of radioactive materials, environmental protection and hazardous substance control, and other local, state, federal and foreign regulation. All facilities and manufacturing processes used by third parties to produce our drug candidates for clinical use in the United States must conform with cGMPs. These facilities and practices are subject to periodic regulatory inspections to ensure compliance with cGMP requirements. Their failure to comply with applicable regulations could extend, delay, or cause the termination of clinical trials conducted for our drug candidates. The impact of government regulation upon us cannot be predicted and could be material and adverse. We cannot accurately predict the extent of government regulation that might result from future legislation or administrative action.

Medical and Scientific Advisory Board

Our Medical and Scientific Advisory Board members work with our management team in the planning, development and execution of scientific and business strategies. The advisory board is composed of experienced academic and industry leaders with diverse expertise and knowledge in a variety of areas, including drug discovery, translational research, drug development, and business development. The following describes the background of our Medical and Scientific Advisory Board.

Stephen C. Blacklow, M.D., Ph.D. Over the last ten years, Dr. Blacklow's research team has achieved international recognition both for their mechanistic and structural studies of proteins of the LDL receptor family, and for their work on the structure and function of human Notch proteins. Recently, Dr. Blacklow's team determined the structure of a RAP d3- receptor complex by X-ray crystallography. Dr. Blacklow graduated from Harvard College summa cum laude in 1983, and received his M.D. and Ph.D. in bioorganic chemistry from Harvard University in 1991. Dr. Blacklow is a board-certified pathologist and an Associate Professor of Pathology at Harvard Medical School where he is the Director of the Harvard M.D.-Ph.D. program, basic sciences track. He has directed a research laboratory at the Brigham and Women's Hospital, a teaching affiliate of the Harvard Medical School, since 1998, and he will be joining the Department of Cancer Biology at the Dana Farber Cancer Institute in 2010.

Guojun Bu, Ph.D., is a molecular and cell biologist and a leader in the field of the LDL receptor family. Dr. Bu obtained his undergraduate degree from the Beijing Normal University in China. He then studied biochemistry and molecular biology in the Department of Biochemistry at Virginia Tech where he received his Ph.D. Dr. Bu moved to the Washington University School of Medicine for a postdoctoral training in cell biology where he later became a member of the faculty. He is currently Professor of Pediatrics, and of Cell Biology and Physiology in the Department of Neuroscience at the Mayo Clinic in Jacksonville, Florida. Among the numerous awards that he has received, Dr. Bu has been an Established Investigator of the American Heart Association and a recipient of a Zenith Fellows Award from the Alzheimer's Association. He currently serves as an Editorial Board member for the Journal of Biological Chemistry and Journal of Lipid Research, and is the Editor-in-Chief of Molecular Neurodegeneration.

Ranjan Dohil, M.D., is Professor of Pediatrics at the University of California, San Diego, within the Division of Gastroenterology, Hepatology and Nutrition. An interest in childhood acid-peptic disorders led Dr. Dohil to study patients with cystinosis taking cysteamine. He has published the results of a number of studies trying to better understand the pharmacokinetics of cysteamine with the intent of developing a new formulation of cysteamine that would result in an improved quality of life for patients with cystinosis. Dr. Dohil also has a research interest in eosinophilic esophagitis, a condition that over the past few years has increased in incidence. Within this field, his work has led to the development of a treatment that is becoming more widely used. Dr. Dohil undertook his medical training at the University of Wales College of Medicine in Cardiff, U.K. He has served as a physician in many hospitals over his career including the University Hospital of Wales in Cardiff, U.K., the British Columbia's Children's Hospital in Vancouver, Canada and at St. Bartholemew and The London Medical School.

Jerry Schneider, M.D. is Research Professor of Pediatrics and Dean for Academic Affairs Emeritus at the University of California, San Diego (UCSD) School of Medicine. He also serves as a member of the Board of Directors and Chair of the Scientific Review Board for the Cystinosis Research Foundation. Over the course of his distinguished career, Dr. Schneider has been actively involved in the study of metabolic diseases. An expert on the diagnosis and treatment of cystinosis, Dr. Schneider has published over 150 papers on cystinosis and related subjects over the past 40 years. Since 1969 he has been associated with the UCSD School of Medicine in both academic and research capacities. Dr. Schneider earned his M.D. from Northwestern University. He received postgraduate training at Johns Hopkins University, the National Institutes of Health (NIH), and the Centre de Genetique Moleculaire, Gif-sur-Yvette, France. He was also a Guggenheim Fellow and a Fogarty Senior Fellow at the Imperial Cancer Research Fund Laboratories in London, England.

Legal Proceedings

We know of no material, active or pending legal proceedings against us, or any of our property, and we are not involved as a plaintiff in any material proceedings or pending litigation. There are no proceedings in which any of our directors, officers or affiliates, or any registered or beneficial stockholders are an adverse party or have a material interest adverse to us.

Research and Development

We are a research and development company and our plan is to focus our efforts in the discovery, research, preclinical and clinical development of our RAP based platforms, complementary technologies and clinical drug candidates to provide therapies that we believe will be safer, less intrusive, and more effective than current approaches in treating a wide variety of brain disorders and neurodegenerative diseases, genetic disorders and cancer. During the period from September 8, 2005 (inception of Raptor Pharmaceuticals Corp.) to August 31, 2010, we incurred approximately \$24.2 million (\$9.3 million and \$6.6 million for the years ended August 31, 2010 and 2009, respectively) in research and development costs.

Please see the sections titled, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and “Description of Business” in this prospectus for our planned research and development activities for the twelve months subsequent to August 31, 2010.

Compliance with Environmental Laws

We estimate the annual cost of compliance with environmental laws, comprised primarily of hazardous waste removal, will be approximately \$5,000.

Employees

We presently have ten full time employees, including five executives, one scientist, one program director, one clinical operations director, one senior manager in our regulatory department and one senior manager in our finance department. We also have one part-time scientist. Based on our current plan, over the next 12 month period, we anticipate hiring one or two commercial operations specialists in preparation for the commercial launch of DR Cysteamine for cystinosis. We also plan to supplement our human resources needs through consultants and contractors as needed.

Facilities

Our primary offices are located at 9 Commercial Blvd., Suite 200, Novato, CA 94949. Our phone number is (415) 382-8111 and our facsimile number is (415) 382-1368. Our website is located at www.raptorpharma.com.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion in conjunction with our consolidated financial statements, and the notes to such consolidated financial statements included elsewhere in this prospectus. All references in this prospectus to “we,” “us,” “our,” the “Company,” “Raptor” and similar references refer to the public company formerly known as TorreyPines Therapeutics, Inc. and now known as Raptor Pharmaceutical Corp., including its wholly-owned direct and indirect subsidiaries (which includes Raptor Pharmaceuticals Corp., Raptor Discoveries Inc., Raptor Therapeutics Inc. and Raptor Pharmaceuticals Europe BV), following the name change and completion of the 2009 Merger. On August 30, 2010, our former wholly-owned subsidiary, TPTX, Inc. was merged into Raptor Therapeutics Inc. This “Management’s Discussion and Analysis of Financial Condition and Results of Operations” section contains forward-looking statements. Please see “Forward-Looking Statements” for a discussion of the uncertainties, risks and assumptions associated with these statements. Our actual results and the timing of certain events could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including those discussed below and elsewhere in this prospectus, particularly under the heading “Risk Factors.”

Application of Critical Accounting Policies

Our consolidated financial statements and accompanying notes are prepared in accordance with generally accepted accounting principles used in the U.S. Preparing financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue and expenses. These estimates and assumptions are affected by management’s application of accounting policies. We believe that understanding the basis and nature of the estimates and assumptions involved with the following aspects of our consolidated financial statements is critical to an understanding of our consolidated financial position.

We believe the following critical accounting policies require us to make significant judgments and estimates in the preparation of our consolidated financial statements.

Fair Value of Financial Instruments

The carrying amounts of certain of our financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due to their short maturities.

Cash and Cash Equivalents

We consider all highly liquid investments with original maturities of three months or less to be cash equivalents.

Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine, to the RAP technology and to the out-license and the rights to NGX 426 acquired in the 2009 Merger. The intangible assets related to DR Cysteamine and the RAP technology are amortized using the straight-line method over the estimated useful life of 20 years, which is the life of the intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. The intangible assets related to the out-license will be amortized using the straight-line method over the estimated useful life of 16 years, which is the life of the intellectual property patents. The intangible assets related to NGX 426, which has been classified as in-process research and development, will not be amortized until development is completed.

Goodwill

Goodwill represents the excess of the value of the purchase consideration over the identifiable assets acquired in the 2009 Merger. Goodwill will be reviewed annually, or when an indication of impairment exists, to determine if any impairment analysis and resulting write-down in valuation is necessary.

Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful -life of the asset or the lease term. Significant additions and improvements that have useful lives estimated at greater than one year are capitalized, while repairs and maintenance are charged to expense as incurred.

Impairment of Long-Lived Assets

We evaluate our long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. We have not identified any such impairment losses to date.

Common Stock Warrant Liabilities

The warrants issued in the 2010 Private Placement contain a cash-out provision which may be triggered upon request by the warrant holders if we are acquired or upon the occurrence of certain other fundamental transactions involving our Company. This provision requires these warrants to be classified as liabilities and will be marked to market at each period end commencing on August 31, 2010. The warrants we issued in our December 2009 Direct Offering contain a conditional obligation that may require us to transfer assets to repurchase the warrants upon the occurrence of potential future events. Under the Financial Accounting Standards Board, or FASB, Accounting Standards Codification, or ASC, Topic 480, Distinguishing Liabilities from Equity, or ASC 480, a financial instrument that may require the issuer to settle the obligation by transferring assets is classified as a liability. Therefore, we have classified the warrants issued in the Direct Offering as liabilities and will mark them to fair value at each period end.

Marked-to-Market

The warrants to purchase our common stock issued in our 2010 Private Placement and our Direct Offering are classified as liabilities under ASC 480 and are, therefore, re-measured at the end of every reporting period with the change in value reported in our consolidated statements of operations.

Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established

when necessary to reduce deferred tax assets to the amount expected to be realized.

Research and Development

We are an early development stage company. Research and development costs are charged to expense as incurred. Research and development expenses include medical, clinical, regulatory and scientists' salaries and benefits, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses.

In-Process Research and Development

Prior to September 1, 2009, we recorded in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. Upon the adoption of the revised guidance on business combinations, effective September 1, 2009, the fair value of acquired in-process research and development is capitalized and tested for impairment at least annually. Upon completion of the research and development activities, the intangible asset is amortized into earnings over the related product's useful life. We review each product candidate acquisition to determine the existence of in-process research and development.

Stock-Based Compensation

In February 2010, our Board of Directors approved, and in March 2010 our stockholders approved, our 2010 Equity Incentive Plan, or the 2010 Plan, to grant up to an aggregate of 3,000,000 stock options or restricted stock or restricted stock units over the ten year life of the 2010 Plan. Our board of directors has determined not to make any new grants under any of our former plans, but rather under the 2010 Plan. The 2010 Plan's term is ten years and allows for the granting of options to employees, directors and consultants.

In May 2006, Raptor Pharmaceuticals Corp.'s stockholders approved the 2006 Equity Compensation Plan, as amended, referred to herein as the 2006 Plan. The 2006 Plan's term is ten years and allows for the granting of options to employees, directors and consultants. Effective as of the effective time of the 2009 Merger, we assumed the outstanding stock options of Raptor Pharmaceuticals Corp. granted under the 2006 Plan. Such assumed options are subject to the terms of the 2006 Plan and, in each case, are also subject to the terms and conditions of an incentive stock option agreement, non-qualified stock option agreement or other option award, as the case may be, issued under such 2006 Plan. Prior to the 2009 Merger, and subject to the 2009 Merger becoming effective, our board of directors adopted the 2006 Plan such that the 2006 Plan became an equity incentive plan of ours after the 2009 Merger. Typical option grants under the 2010 and 2006 Plans are for ten years with exercise prices at or above market price based on the last closing price as of the date prior to the grant date on the relevant stock market or exchange and vest over four years as follows: 6/48ths on the six month anniversary of the date of grant; and 1/48th per month thereafter.

Effective September 1, 2006, our stock-based compensation is accounted for in accordance with ASC Topic 718, Accounting for Compensation Arrangements, or ASC 718 (previously listed as Statement of Financial Accounting Standards, or SFAS, No. 123 (revised 2004), Share-Based Payment), and related interpretations. Under the fair value recognition provisions of this statement, share-based compensation cost is measured at the grant date based on the value of the award and is recognized as expense over the vesting period. Determining the fair value of share-based awards at the grant date requires judgment, including estimating future stock price volatility and employee stock option exercise behavior. If actual results differ significantly from these estimates, stock-based compensation expense and results of operations could be materially impacted.

In March 2005, the FASB issued ASC 718 (previously listed as Staff Accounting Bulletin, or SAB, No. 107, or SAB 107), which offers guidance for what was previously referred to as SFAS 123(R). ASC 718 was issued to assist preparers by simplifying some of the implementation challenges of SFAS 123(R) while enhancing the information that investors receive. ASC 718 creates a framework that is premised on two overarching themes: (a) considerable

judgment will be required by preparers to successfully implement SFAS 123(R), specifically when valuing employee stock options; and (b) reasonable individuals, acting in good faith, may conclude differently on the fair value of employee stock options. Key topics covered by ASC 718 include valuation models, expected volatility and expected term.

For the year ended August 31, 2010, stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following: risk-free interest rate of 2.07% to 3.1%; 6 to 7 year expected life; 55% to 245% volatility; 2.5% to 10% turnover rate; and 0% dividend rate.

We based our Black-Scholes inputs on the following factors: the risk-free interest rate was based upon our review of current constant maturity treasury bill rates for seven and five years (average); the expected life was based upon our assessment of the ten-year term of the stock options issued along with the fact that we are a development-stage company and our anticipation that option holders will exercise stock options when the company is at a more mature stage of development; the volatility was based on the actual volatility of our common stock price as quoted on NASDAQ since the closing of our 2009 Merger on September 30, 2009; the turnover rate was based on our assessment of our historical employee turnover; and the dividend rate was based on our current decision to not pay dividends on our stock at our current development stage. If factors change and different assumptions are employed in the application of ASC 718, the compensation expense recorded in future periods may differ significantly from what was recorded in the current period. See Note 8 of our consolidated financial statements for further discussion of our accounting for stock based compensation.

We recognize as consulting expense the fair value of options granted to persons who are neither employees nor directors. Stock options issued to consultants are accounted for in accordance with the provisions of the FASB ASC Topic 505-50, Equity-Based Payments to Non-Employees, or ASC 505-50 (previously listed as Emerging Issues Task Force, or EITF, Consensus No. 96-18, Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods or Services). The fair value of expensed options is based on the Black-Scholes option-pricing model assuming the same factors as stock-based compensation expense discussed above.

Results of Operations

Years ended August 31, 2010 and 2009

General and Administrative Expenses

General and administrative expenses include finance and executive compensation and benefits, corporate costs, such as legal and auditing fees, business development expenses, travel, board of director fees and expenses, investor relations expenses, intellectual property costs associated with filed (but not issued) patents, administrative consulting and allocated human resources and facilities costs. General and administrative expenses for the year ended August 31, 2010 increased by approximately \$1,032,000 compared to the prior fiscal year. The increase was primarily due to:

| Reason for Variance | Variance in \$ Thousands |
|--|-----------------------------|
| Legal expenses for clinical trial agreements, licenses and establishment of a European subsidiary | 274 |
| Additional investor relations costs relating to press releases and annual meeting costs in fiscal 2010 that did not occur in fiscal 2009 | 258 |
| Transfer agent and NASDAQ fees related to 2009 Merger and two post-2009 Merger financings in fiscal 2010 that did not occur in fiscal 2009 | 197 |
| Cash bonuses paid or accrued in fiscal 2010 that did not occur in fiscal 2009 | 196 |
| Additional accounting and professional fees due to additional complexities related to the 2009 Merger | 165 |

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| Salary increases in 2010 retroactive to September 1, 2009 | 137 |
| Increase in clinical patents application costs | 122 |
| Increase in administrative consulting related to business development and maintaining the European subsidiary | 115 |
| Increase in services to maintain TorreyPines data and inventory | 79 |

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|--|-------|
| Increase in D&O insurance to cover TorreyPines officers and to provide tail coverage less reduction in Raptor coverage | 63 |
| Increase in HR costs allocated to G&A based upon salaries | 63 |
| Increase in board fees and board expenses due to new board member in Sept. 2009 | 54 |
| Increase in benefits costs and due to new employees | 39 |
| Increase in rent expense due to San Mateo lease and increase in operating expenses for Novato lease | 22 |
| Decrease in recruiting fee paid for CMO in 2009 and not in 2010 | (41) |
| Decrease in stock option expense due to options that were fully vested in 2009 | (153) |
| Decrease in legal expenses incurred in fiscal 2009 for the 2009 Merger that did not occur in fiscal 2010 | (215) |
| Increase in G&A costs allocated to R&D due to additional R&D personnel | (348) |
| Various other | 5 |
| General and Administrative variance year ended August 31, 2010 vs. August 31, 2009 | 1,032 |

Research and Development

Research and development expenses include medical, clinical, regulatory and scientists' compensation and benefits, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses. Research and development expenses for the year ended August 31, 2010 increased by approximately \$2,764,000 over the prior fiscal year primarily due to:

| Reason for Variance | Variance in \$ Thousands |
|---|-----------------------------|
| Clinical costs of preparing for and commencement of Phase 3 cystinosis trial | 1,582 |
| Manufacture of DR Cysteamine for cystinosis and Huntington's clinical trials | 1,188 |
| Increase in executive costs to R&D | 348 |
| Hiring of CMO in April 2009, salary increases retroactive to Sept. 1, 2009, addition of director of clinical operations in March 2010 | 312 |

| | |
|---|-------|
| Reduction of collaboration reimbursement received in fiscal 2009 not repeated in fiscal 2010 | 300 |
| Cash bonuses paid/accrued in fiscal 2010 that did not occur in fiscal 2009 | 113 |
| Increase in patent fees for preclinical issued patents | 84 |
| Increase in clinical liability insurance due to the Phase 3 cystinosis trial | 53 |
| Additional travel for clinical trial preparation and commencement | 45 |
| Decrease in HR costs allocated to R&D based upon salaries | (63) |
| Reduction of reagent purchases by preclinical development | (257) |
| Reduction of HepTide and WntTide preclinical studies | (306) |
| Reduction of R&D consultants replaced by CMO, Director of Program Mgmt. and Director of Clinical Operations | (602) |
| Various other | (33) |
| Research and Development variance year ended August 31, 2010 vs. August 31, 2009 | 2,764 |

Research and development expenses include the following: (in \$ millions)

| Major Program (stage of development) | Estimated next 12 months | Cumulative through August 31, 2010 | Year ended August 31, | |
|--|--------------------------|------------------------------------|-----------------------|-------|
| | | | 2010 | 2009 |
| DR Cysteamine – All Indications (clinical) | 8.7 | 11.2 | 6.2 | 4.0 |
| Convivia TM (clinical) | | 2.2 | 0.1 | 0.4 |
| HepTide TM (preclinical) | - | 1.6 | - | 0.4 |
| NeuroTrans TM (preclinical) | - | 0.4 | 0.1 | (0.3) |
| WntTide TM (preclinical) | 0.1 | 0.4 | 0.1 | 0.1 |
| Minor or Inactive Programs | - | 0.8 | 0.1 | 0.1 |

| | | | | |
|---|------|------|-----|-----|
| R & D Personnel and Other Costs Not Allocated to Programs | 3.0 | 7.6 | 2.6 | 1.9 |
| Total Research & Development Expenses | 11.8 | 24.2 | 9.3 | 6.6 |

Major Program expenses recorded as general and administrative expenses: (in \$ millions)

| Major Program (stage of development) | Estimated next 12 months | Cumulative through August 31, 2010 | Year ended August 31, | |
|---|--------------------------------|---|--------------------------|------|
| | | | 2010 | 2009 |
| DR Cysteamine – All Indications (clinical) | 0.15 | 0.34 | 0.14 | 0.12 |
| Convivia™ (clinical) | 0.05 | 0.17 | 0.08 | 0.05 |
| HepTide™ (preclinical) | 0.05 | 0.32 | 0.15 | 0.07 |
| NeuroTrans™ (preclinical) | 0.05 | 0.20 | 0.05 | 0.05 |
| WntTide™ (preclinical) | 0.06 | 0.13 | 0.07 | 0.01 |

Additional major program expenses include patent fees and patent expenses which were recorded as general and administrative expenses as these fees are to support patent applications (not issued patents).

Any of our major programs could be partnered for further development and/or could be accelerated, slowed or ceased due to scientific results or challenges in obtaining funding. We anticipate that we will need additional funding in order to pursue our plans beyond the next 12 months. In addition, the timing and costs of development of our programs beyond the next 12 months is highly uncertain and difficult to estimate. See the section titled “Risk Factors” of this prospectus for further discussion about the risks and uncertainties pertaining to drug development.

Current Status of Major Programs

Please refer to the section titled, “Description of Business-Future Activities” of this prospectus for a detailed discussion of each of our major programs. In summary, DR Cysteamine is being developed in cystinosis, NASH and HD. In November 2009, we released data from our Phase 2b clinical trial and in June 2010, we commenced our Phase 3 clinical trial to study DR Cysteamine in cystinosis patients. We anticipate completion of enrollment by the end of 2010. In May 2010, we presented the data from our NASH Phase 2a clinical trial and are reformulating the drug product candidate for a potential Phase 2 trial in 2011. In October 2010, our collaborator commenced a Phase 2a

clinical trial of DR Cysteamine in HD patients.

Our Convivia™ product candidate completed its initial clinical study in 2008 and in June 2010, we licensed Convivia™ to Uni Pharma for further clinical development in Taiwan, with an option to develop Convivia™ in South Korea. We continue to seek other potential partners for Convivia™ in other Asian countries where its potential market exists. We are seeking to out-license our Tezampanel and NGX426 product candidates and no development costs will be incurred for the pain indication. NeuroTrans™ is currently being studied under a collaboration agreement with Roche. HepTide™ will be undergoing further preclinical proof of concept studies and WntTide™ is being considered for potential out-licensing for further development. All preclinical product candidates will require further study prior to potentially moving into a clinical phase of development.

Interest Income

Interest income decreased by \$11,043 for the year ended August 31, 2010 compared to the prior fiscal year due to the reduction of interest rates.

Interest Expense

Interest expense for the years ended August 31, 2010 and 2009 were nominal.

Foreign Currency Transaction Loss

Foreign currency transaction loss increased by \$457 for the year ended August 31, 2010 compared to the prior fiscal year due to the addition of a Euro-denominated bank account and subsidiary in fiscal 2010 resulting from the creation of a European subsidiary to manage our European clinical trials.

Adjustment to the Fair Value of Common Stock Warrants

Adjustment to the fair value of common stock warrants increased by \$5.9 million resulting in an increase to our net loss for the year ended August 31, 2010 compared to the prior fiscal year due to the fact that there was no warrant liability recorded in the prior fiscal year.

Years ended August 31, 2009 and 2008

General and Administrative

General and administrative expenses for the year ended August 31, 2009 increased by \$450,000 compared to the prior fiscal year. The increase was primarily due to:

| Reason for Variance | Variance in \$ Thousands |
|--|-----------------------------|
| Legal costs accrued related to 2009 Merger | 290 |
| Salaries, bonuses, benefits and other employment-related costs due to employee raises that occurred in July 2008, milestone-related bonus paid in October 2008, recruiting fees related to the hiring of our Director of Program Management in October 2008 and our Chief Medical Officer in April 2009 offset by fiscal year 2008 | 170 |

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performance bonuses not repeated in the fiscal year 2009

| | |
|--|-----|
| General and administrative consulting due to retention of strategic business advisor in May 2008, investor relations consultants in February 2009 and for the redesign of our website in November 2008 | 200 |
|--|-----|

| | |
|--|----|
| Board fees and expenses due to the addition of a new Board member in July 2008 | 80 |
|--|----|

| | |
|--|------|
| Decrease in depreciation related to fully depreciated assets | (50) |
|--|------|

| | |
|---|------|
| Decrease in travel expenses due to reduction in attendance at tradeshow and conferences | (50) |
|---|------|

| | |
|--|-------|
| Increase in support services allocated to research and development | (190) |
|--|-------|

| | |
|--|-----|
| General and Administrative variance year ended August 31, 2009 vs. August 31, 2008 | 450 |
|--|-----|

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Research and Development

Research and development expenses for the year ended August 31, 2009 increased by \$1.0 million over the prior fiscal year primarily due to:

| Reason for Variance | Variance in \$ Thousands |
|--|--------------------------|
| Formulation and manufacturing costs related to our proprietary formulation of DR Cysteamine in preparation for our clinical trials in cystinosis | 1,210 |
| Increase in research and development expenses in preparation for our pre-IND meeting with the FDA and in preparation for our IND submission | 340 |
| Increase in salaries and benefits due to the hiring of our director of Program Management in November 2008 and our Chief Medical Officer in April 2009 | 250 |
| Increase in milestone payments for the commencement of the NASH trial in October 2008 and cystinosis trial in June 2009 | 250 |
| Increase in clinical trial costs for our NASH indication | 230 |
| Increase in allocated support services to research and development | 190 |
| Decrease in tradeshows and conferences expenses due to reduction in attendance at conferences | (20) |
| Decrease in preclinical studies due to the reduction of resources allocated to preclinical programs | (100) |
| Decrease in lab collaboration fees due to the lapse of the Stanford collaboration on NeuroTrans | (240) |
| Decrease in preclinical manufacturing of HepTide conjugates made in fiscal 2008 not repeated in fiscal 2009 | (270) |
| Decrease in lab personnel expenses due to a collaboration reimbursement | (300) |
| Decrease in clinical trial costs due to the Convivia trial that occurred in fiscal 2008 that did not repeat in fiscal 2009 | (540) |
| Research and Development variance year ended August 31, 2009 vs. August 31, 2008 | 1,000 |

Research and development expenses include the following: (in \$ millions)

| Major Program (stage of development) | Cumulative Through August 31, 2009 | FYE August 31, 2009 | FYE August 31, 2008 |
|---|------------------------------------|---------------------|---------------------|
| DR Cysteamine – All Indications (clinical) | 5.0 | 4.0 | 1.0 |
| Convivia™ (clinical) | 2.1 | 0.4 | 1.7 |
| HepTide™ (preclinical) | 1.6 | 0.4 | 0.7 |
| NeuroTrans™ (preclinical) | 0.3 | (0.3) | 0.3 |
| WntTide™ (preclinical) | 0.3 | 0.1 | 0.2 |
| Minor or Inactive Programs | 0.7 | 0.1 | 0.2 |
| R & D Personnel and Other Costs Not Allocated to Programs | 4.9 | 1.9 | 1.5 |
| Total Research & Development Expenses | 14.9 | 6.6 | 5.6 |

Major Program expenses recorded as general and administrative expenses: (in \$ millions)

| Major Program (stage of development) | Cumulative Through August 31, 2009 | FYE August 31, 2009 | FYE August 31, 2008 |
|--|------------------------------------|---------------------|---------------------|
| DR Cysteamine – All Indications (clinical) | 0.20 | 0.12 | 0.08 |
| Convivia™ (clinical) | 0.09 | 0.05 | 0.04 |
| HepTide™ (preclinical) | 0.17 | 0.07 | 0.05 |
| NeuroTrans™ (preclinical) | 0.15 | 0.05 | 0.05 |
| WntTide™ (preclinical) | 0.06 | 0.01 | 0.02 |

Additional major program expenses include patent fees and patent expenses which were recorded as general and administrative expenses as these fees are to support patent applications (not issued patents).

Any of our major programs could be partnered for further development and/or could be accelerated, slowed or ceased due to scientific results or challenges in obtaining funding. The timing and costs of development of our programs beyond the next 12 months is highly uncertain and difficult to estimate. See Item 1A titled Risk Factors for further discussion about the risks and uncertainties pertaining to drug development.

In-Process Research and Development Expenses

In-process research and development expenses decreased by \$0.24 million over the year ended August 31, 2008 due to the recording of the purchase of our Convivia™ program during the year ended August 31, 2008. No such expense was incurred in the year ended August 31, 2009. In-process research and development expenses were calculated

based on the value of our stock issued in connection with the purchase of certain intellectual property rights to develop Convivia™ (4-MP) for the treatment of acetaldehyde toxicity.

Interest Income

Interest income decreased by \$0.041 million during the year ended August 31, 2009 over the year ended August 31, 2008 due to the significant decrease in annual money market interest rates from an average of 2% in 2008 to an average of less than 1% in 2009.

Interest Expense

Interest expense decreased by \$0.10 million in the year ended August 31, 2009 over the year ended August 31, 2008 due to the capitalized finder's fee of 46,625 shares of our common stock valued at \$102,000 (which was paid in connection with a convertible loan), which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the convertible loan prior to its expiration.

Liquidity and Capital Resources

Capital Resource Requirements

As of August 31, 2010, we had approximately \$17.0 million in cash, approximately \$17.6 million in current liabilities (of which \$15.8 million represented the non-cash common stock warrant liability) and approximately (\$0.3) million of net working capital deficit. Our forecasted average monthly cash expenditures for the next twelve months are approximately \$1.2 million.

We believe our cash and cash equivalents as of November 5, 2010 of \$14.5 million will be sufficient to meet our obligations into December 2011. We are currently in the process of negotiating strategic partnerships, collaborations and potential equity sales to supplement the funding of our preclinical and clinical programs beyond December 2011. If we are unable to obtain such additional capital when needed, we may be forced to scale down our expenditures.

Our recurring losses from operations and our accumulated deficit raise substantial doubt about our ability to continue as a going concern and, as a result, our independent registered public accounting firm included an explanatory paragraph in its report on our consolidated financial statements for the year ended August 31, 2010 with respect to this uncertainty. We may need to generate significant revenue or raise additional capital to continue to operate as a going concern beyond December 2011. In addition, the perception that we may not be able to continue as a going concern may cause others to choose not to deal with us due to concerns about our ability to meet our contractual obligations and may adversely affect our ability to raise additional capital.

The sale of additional securities is likely to result in additional dilution to our stockholders. Additional financing may not be available when needed in amounts or on terms satisfactory to us or at all. We may be unable to raise additional financing due to a variety of factors, including our financial condition, the status of our research and development programs, and the general condition of the financial markets. If we fail to raise additional financing when needed, we may have to delay or terminate some or all of our research and development programs, our financial condition and operating results may be adversely affected and we may have to scale back our operations.

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In August 2009, Raptor Pharmaceuticals Corp. entered into a Securities Purchase Agreement with four investors for the private placement of units at a purchase price of \$1.37 per unit. Each unit was comprised of one share of our common stock, par value \$0.001 per share and one warrant to purchase one half of one share of our common stock. At the closing, Raptor Pharmaceuticals Corp. sold an aggregate of 1,738,226 units to the investors, comprised of an aggregate of 1,738,226 shares of our common stock and warrants to purchase up to in the aggregate, 869,113 shares of our common stock, for aggregate gross proceeds of \$2,386,000. The investor warrants, exercisable for two years from the closing, had an exercise price of \$2.57 per share during the first year and \$3.22 per share during the second year, depending on when such investor warrants were exercised, if at all. To-date, warrants to purchase 233,124 shares were exercised for aggregate gross proceeds of \$599,129. The balance of warrants to purchase 635,990 of our common stock remain outstanding as of November 5, 2010.

In December 2009, we entered into a definitive securities purchase agreement, or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors (collectively, the Direct Offering Investors) with respect to the sale

of units, whereby, on an aggregate basis, the investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per unit for aggregate gross proceeds of approximately \$7.5 million. Each unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. The shares of our common stock and the warrants were issued separately. The Series A Warrants exercisable for an aggregate 1,873,779 shares of our common stock were exercisable commencing on June 20, 2010 and ending December 22, 2014. The Series B Warrants exercisable for an aggregate 1,873,779 shares of our common stock were exercisable commencing on June 20, 2010 and ending June 22, 2011. The investor warrants have a per share exercise price of \$2.45. In connection with this offering we paid a placement agent cash compensation equal to 6.5% of the gross proceeds or \$487,183 plus a five-year warrant at an exercise price of \$2.50 per share for the purchase of up to 74,951 shares of our common stock. To-date Series B warrants to purchase 68,808 shares of our common stock were exercised for aggregate gross proceeds of \$168,580. As of November 5, 2010, there were Series A warrants to purchase 1,868,750 shares of our common stock and Series B warrants to purchase 1,810,000 shares of our common stock outstanding.

In April 2010, we entered into a \$15 million equity line facility with LPC, which allows us to sell shares of our common stock every two days if our selling price to the investor is over \$1.50 per share. Cumulatively, as of November 5, 2010, we have sold approximately 2.2 million shares under the equity line raising approximately \$4.9 million. We may direct LPC to purchase up to an additional \$10.1 million of shares of our common stock under the LPC Purchase Agreement over the next 20 months, generally in amounts of up to \$100,000 every 2 business days. However, LPC does not have the right nor the obligation to purchase any shares of our common stock on any business day that the purchase price of our common stock is less than \$1.50 per share. Although we have the right to sell additional shares of our common stock to LPC under the LPC Purchase Agreement, we are restricted from making such sale under the 2010 Private Placement Purchase Agreement until November 10, 2010.

On August 9, 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. As the placement agent for the 2010 Private Placement, the Placement Agent was issued one warrant to purchase 97,952 shares of our common stock at an exercise price of \$3.075 per share, paid a cash commission of \$978,911 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

There can be no assurance that we will be able to obtain funds required for our continued operation. There can be no assurance that additional financing will be available to us or, if available, that it can be obtained on commercially reasonable terms. If we are not able to obtain financing on a timely basis, we will not be able to meet our obligations as they become due and we will be forced to scale down or perhaps even cease the operation of our business. This also may be the case if we become insolvent or if we breach our asset purchase agreement with BioMarin or our licensing agreements with Washington University and UCSD due to non-payment (and we do not cure our non-payment within the stated cure period). If this happens, we would lose all rights to the RAP technology assigned to us by BioMarin and/or the rights to Mesd licensed to us by Washington University and/or the rights to DR Cysteamine licensed to us by UCSD, depending on which agreement is breached. If we lose our rights to the intellectual property related to the RAP technology purchased by us from BioMarin, our agreement with Roche would likely be terminated and any

milestone or royalty payments from Roche to us would thereafter cease to accrue.

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For the next 12 months we intend to expend a total of approximately \$14.5 million to implement our operating plan of researching and developing our DR Cysteamine clinical programs, our RAP based platform, our licensed technologies, as well as continuing business development efforts for our other clinical-stage product candidates. Specifically, we estimate our operating expenses and working capital requirements for the next 12 months to be as follows:

| Estimated spending for the next 12 months: | In millions |
|--|-------------|
| Research and development activities | \$ 10.1 |
| Research and development compensation and benefits | 1.8 |
| General and administrative activities | 1.7 |
| General and administrative compensation and benefits | 0.9 |
| Capital expenditures | - |
| Total estimated spending for the next 12 months | \$ 14.5 |

We anticipate that we will not be able to generate revenues from the sale of products until we further develop our drug product candidates and obtain the necessary regulatory approvals to market our future drug product candidates, which could take several years or more, if we are able to do so at all. Accordingly, our cash flow projections are subject to numerous contingencies and risk factors beyond our control, including successfully developing our drug product candidates, market acceptance of our drug product candidates, competition from well-funded competitors, and our ability to manage our expected growth. It is likely that for many years, we will not be able to generate internal positive cash flow from the sales of our drug product candidates sufficient to meet our operating and capital expenditure requirements.

There is substantial doubt about our ability to continue as a going concern as the continuation of our business is dependent upon obtaining further long-term financing, the successful development of our drug product candidates and related technologies, the successful and sufficient market acceptance of any product offerings that we may introduce and, finally, the achievement of a profitable level of operations. The issuance of additional equity securities by us is likely to result in a significant dilution in the equity interests of our current stockholders. Obtaining commercial loans, assuming those loans would be available, including on acceptable terms, will increase our liabilities and future cash commitments.

Research and Development Activities

We plan to conduct further research and development, seek to support several clinical trials for DR Cysteamine, improve upon our RAP-based and in-licensed technology and continue business development efforts for our other clinical-stage product candidates in the next 12 months. We plan to conduct research and development activities by our own laboratory staff and also by engaging contract research organizations, clinical research organizations and contract manufacturing organizations. We also plan to incur costs for the production of our clinical study drug candidate, DR Cysteamine, clinical trials, clinical and medical advisors and consulting and collaboration fees. We anticipate our research and development costs for the next 12 months, excluding in-house research and development

compensation, will be approximately \$10.1 million.

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Officer and Employee Compensation

We have five executive officers, one permanent scientific staff member, three permanent clinical development staff members and one permanent finance staff member. We anticipate spending up to approximately \$2.6 million in officer and employee compensation during the next 12 months, of which \$1.7 million is allocated to research and development expenses and \$0.9 million is allocated to general and administrative expenses.

General and Administrative

We anticipate spending approximately \$1.7 million on general and administrative costs in the next 12 months. These costs will consist primarily of legal and accounting fees, patent legal fees, investor relations expenses, board fees and expenses, insurance, rent and facility support expenses, excluding finance and administrative compensation.

-Capital Expenditures

We anticipate spending approximately \$20,000 in the next 12 months on capital expenditures for lab equipment and office furniture.

Contractual Obligations with BioMarin

Pursuant to the terms of the asset purchase agreement we entered into with BioMarin for the purchase of intellectual property related to our RAP based technology (including NeuroTrans™), we are obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

- \$50,000 (paid by us in June 2006) within 30 days after we receive total aggregate debt or equity financing of at least \$2,500,000;
- \$100,000 (paid by us in June 2006) within 30 days after we receive total aggregate debt or equity financing of at least \$5,000,000;
- \$500,000 upon our filing and acceptance of an investigational new drug application for a drug product candidate based on our NeuroTrans™ product candidate;
- \$2,500,000 upon our successful completion of a Phase 2 human clinical trial for a drug product candidate based on our NeuroTrans™ product candidate;
- \$5,000,000 upon our successful completion of a Phase 3 human clinical trial for a drug product candidate based on our NeuroTrans™ product candidate;
- \$12,000,000 within 90 days of our obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on our NeuroTrans™ product candidate;

- \$5,000,000 within 90 days of our obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on our NeuroTrans™ product candidate;
- \$5,000,000 within 60 days after the end of the first calendar year in which our aggregated revenues derived from drug product candidates based on our NeuroTrans™ product candidate exceed \$100,000,000; and
- \$20,000,000 within 60 days after the end of the first calendar year in which our aggregated revenues derived from drug product candidates based on our NeuroTrans™ product candidate exceed \$500,000,000.

In addition to these milestone payments, we are also obligated to pay BioMarin a royalty at a percentage of our aggregated revenues derived from drug product candidates based on our NeuroTrans™ product candidate. On June 9, 2006, we made a milestone payment in the amount of \$150,000 to BioMarin because we raised \$5,000,000 in our May 25, 2006 private placement financing. If we become insolvent or if we breach our asset purchase agreement with BioMarin due to non-payment and we do not cure our non-payment within the stated cure period, all of our rights to RAP technology (including NeuroTrans™) will revert back to BioMarin.

Contractual Obligations with Thomas E. Daley (assignee of the dissolved Convivia, Inc.)

Pursuant to the terms of the asset purchase agreement, or the Asset Purchase Agreement, that we entered into with Convivia, Inc. and Thomas E. Daley, pursuant to which we purchased intellectual property related to our 4-MP product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by us, as set forth below:

- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we enter into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia, or Purchased Assets, in quantity, referred to as Product, if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of our restricted, unregistered common stock. Should we obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 11,656 shares of our restricted, unregistered common stock within 30 days of execution of such second license or other agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement for executing the Patheon formulation agreement for manufacturing Convivia™. On March 31, 2008, Raptor Pharmaceuticals Corp. issued 23,312 shares of our common stock valued at \$56,000 to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for Convivia™, combined with the execution of a formulation agreement to produce the oral formulation of Convivia™. In July 2010, we issued 11,656 shares of our restricted common stock valued at \$35,551 and paid a \$10,000 cash bonus to Mr. Daley as result of the execution of the license agreement with Uni Pharma for the development of Convivia™ in Taiwan.
- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we receive our first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries, or a Major Market.
- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days after we receive our second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding bullet point above in a Major Market.
- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days of completion of predetermined benchmarks in a Major Market by us or our licensee of the first phase 2 human clinical trial for a Product, or Successful Completion if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of our restricted, unregistered common stock within thirty (30) days of such Successful Completion. In October 2008, Raptor Pharmaceuticals Corp. issued 23,312 shares of our common stock valued at \$27,000 and a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone.
- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days of a Successful Completion in a Major Market by us or our licensee of the second phase 2 human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding bullet

point above).

- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought, or Marketing Approval.

- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

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- 46,625 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a Major Market.

- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

As discussed above, in aggregate, we issued to Mr. Daley, 58,281 shares of our common stock valued at \$118,551 and paid \$70,000 in cash bonuses related to ConviviaTM milestones along with another \$20,000 in cash bonuses related to employment milestones pursuant to Mr. Daley's employment agreement..

Contractual Obligations with Former Encode Securityholders

Pursuant to the terms of the merger agreement, or the Encode Merger Agreement, that we entered into with Encode Pharmaceuticals, Inc. and Nicholas Stergis in December 2007, former Encode securityholders will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by us, as set forth below:

- Restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to, in the aggregate, 116,562 shares of our common stock upon the receipt by it at any time prior to the fifth-year anniversary of the Encode Merger Agreement of approval to market and sell a product for the treatment of cystinosis predominantly based upon and derived from the assets acquired from Encode, or Cystinosis Product, from the applicable regulatory agency (e.g., FDA and European Agency for the Evaluation of European Medical Products, or EMA) in a given major market in the world.

- Restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to 442,934 shares of our common stock upon the receipt by us at any time prior to the fifth anniversary of the Encode Merger Agreement of approval to market and sell a product, other than a Cystinosis Product, predominantly based upon and derived from the assets acquired from Encode, from the applicable regulatory agency (e.g., FDA and EMA) in a given major market in the world.

If within five years from the date of the Encode Merger Agreement, there occurs a transaction or series of related transactions that results in the sale of all or substantially all of the assets acquired from Encode other than to our affiliate in such case where such assets are valued at no less than \$2.5 million, the former Encode stockholders will be entitled to receive, in the aggregate, restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to 559,496 shares of common stock, less the aggregate of all milestone payments previously made or owing, if any.

Pursuant to the terms of the Encode Merger Agreement, an Encode stockholder was granted the right to demand the registration of its portion of the initial restricted, unregistered common stock issued to it in connection with the execution of the Encode Merger Agreement at any time following 140 days from the closing date of the merger with Encode and prior to the expiration of the fourth anniversary of the Encode Merger Agreement. To the extent that future milestones as described above are accomplished by us within five years from the effective time of the merger with Encode, we will be obligated to file a registration statement within 90 days covering such Encode stockholder's portion of such respective future restricted, unregistered common stock issued relating to such milestone payment.

Contractual Obligations with UCSD

As a result of the merger of our clinical subsidiary and Encode, we received the exclusive worldwide license to DR Cysteamine, or License Agreement for use in the field of human therapeutics for metabolic and neurologic disorders, developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary, delayed-release, enteric-coated microbead formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the FDA. Cysteamine bitartrate is prescribed for the management of the genetic disorder known as cystinosis, a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as HD and NASH.

In consideration of the grant of the license, prior to the merger, Encode paid an initial license fee and we will be obligated to pay an annual maintenance fee of \$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated to, among other things, annually spend at least \$200,000 for the development of products—which, as of August 31, 2010 and 2009, we had spent approximately \$6.2 million and \$4.1 million, respectively, on such programs—pursuant to the License Agreement. To-date, we have accrued \$470,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Contractual Obligations to TPTX, Inc. Employees

Pursuant to the documents related to the 2009 Merger, including amended employment agreements with the TPTX, Inc. employees, who were former executives of TorreyPines prior to the 2009 Merger, we were obligated to pay such former executives their salaries, benefits and other obligations through February 28, 2010, which obligations were extended through mid-April 2010. As of April 1, 2010, we had no remaining obligations to such former executives and they received their final compensation in mid-April 2010.

Off-Balance Sheet Arrangements

We do not have any outstanding derivative financial instruments, off-balance sheet guarantees, interest rate swap transactions or foreign currency contracts. We do not engage in trading activities involving non-exchange traded contracts.

Reverse Acquisition

We have treated the 2009 Merger as a reverse acquisition and the reverse acquisition is accounted for as a recapitalization.

For accounting purposes, Raptor Pharmaceuticals Corp. is considered the accounting acquirer in the reverse acquisition. The historical financial statements reported in this prospectus and in future periods are and will be those of Raptor Pharmaceuticals Corp. consolidated with its subsidiaries and with us, its parent, Raptor Pharmaceutical Corp. (formerly TorreyPines Therapeutics, Inc.). Earnings per share for periods prior to the reverse merger have been restated to reflect the number of equivalent shares received by former stockholders.

Going Concern

Due to the uncertainty of our ability to meet our current operating and capital expenses, in their reports on our audited financial statements for the years ended August 31, 2010, 2009, 2008, 2007 and for the period September 8, 2005 (inception) to August 31, 2006, our independent registered public accounting firm, Burr Pilger Mayer, Inc., included an explanatory paragraph regarding substantial doubt about our ability to continue as a going concern. Our financial statements contain additional note disclosures describing the circumstances that led to this disclosure by our independent registered public accounting firm.

New Accounting Pronouncements

In December 2007, the EITF reached a consensus on ASC Topic 808, Collaborative Agreement, or ASC 808 (previously EITF 07-01, Accounting for Collaborative Arrangements). ASC 808 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. ASC 808 is effective for fiscal years beginning after December 15, 2008. As a result, ASC 808 is effective for us as of September 1, 2009. Based upon the nature of our business, ASC 808 could have a material impact on our financial position and consolidated results of operations in future years, but had no material impact for the year ended August 31, 2010.

In December 2007, the FASB, issued ASC Topic 805, Business Combinations, or ASC 805 (previously SFAS 141(R) and FASB ASC Topic 810, Consolidation, or ASC 810 (previously SFAS 160, Noncontrolling Interests in Consolidated Financial Statements, an amendment of ARB No. 51). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. ASC 805 requires companies to: (i) recognize, with certain exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and gain contingencies at their acquisition-date fair values; (v) capitalize in-process research and development assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in ASC Topic 420, Exit and Disposal Cost Obligations, (previously SFAS No. 146, Accounting for Costs Associated with Exit or Disposal Activities), are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. ASC 805 is required to be adopted concurrently with ASC 810 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (our fiscal 2010). Early adoption of these statements is prohibited. We believe the adoption of these statements will have a material impact on significant acquisitions completed after September 1, 2009. See Note 10 of our consolidated financial statements as of August 31, 2010, which reflect the accounting treatment of our 2009 Merger utilizing these provisions.

In May 2008, the FASB released ASC Topic 470, Debt, or ASC 470 (previously FSP APB 14-1 Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement), which alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. ASC 470 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. ASC 470 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, we adopted ASC 470 as of September 1, 2009. We have determined that ASC 470 had no material impact on our consolidated financial statements for the year ended August 31, 2010.

In April 2008, the FASB issued ASC Topic 350, Intangibles – Goodwill and Other, or ASC 350 (previously FSP SFAS No. 142-3, Determination of the Useful Life of Intangible Assets). ASC 350 provides guidance with respect to estimating the useful lives of recognized intangible assets acquired on or after the effective date and requires additional disclosure related to the renewal or extension of the terms of recognized intangible assets. ASC 350 is effective for fiscal years and interim periods beginning after December 15, 2008. We adopted ASC 350 as of September 1, 2009 and have determined that ASC 350 had no material impact on our consolidated financial statements for the year ended August 31, 2010.

In May 2009, the FASB issued ASC Topic 855, Subsequent Events, or ASC 855 (previously SFAS No. 165, Subsequent Events). ASC 855 establishes general standards of accounting for and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. ASC 855 defines the period after the balance sheet date during which management of a reporting entity should evaluate events or transactions that may occur for potential recognition or disclosure in the financial statements, and the circumstances under which an entity should recognize events or transactions occurring after the balance sheet date in its financial statements. ASC 855 is effective for fiscal years and interim periods ending after June 15, 2009. We adopted ASC 855 as of August 31, 2009 and anticipate that the adoption will impact the accounting and disclosure of future transactions. Our management has evaluated and disclosed subsequent events from the balance sheet date of August 31, 2010 through the date the consolidated financial statements located elsewhere in this prospectus were available to be issued.

ASC Topic 825, Financial Instruments, or ASC 825 (previously FSP FAS 107-1 and APB 28-1 amends FASB Statement No. 107, Disclosures about Fair Value of Financial Instruments), to require disclosures about the fair value of financial instruments for interim reporting periods of publicly traded companies as well as in annual financial statements. This ASC 825 also amends APB Opinion No. 28, Interim Financial Reporting, to require those disclosures in summarized financial information at interim reporting periods. The adoption of ASC 825 did not have a material impact on our consolidated financial statements for the year ended August 31, 2010.

In June 2009, the FASB issued SFAS No. 167, Amendments to FASB Interpretation No. 46(R), or SFAS 167, which has not yet been codified in the ASC. The amendments include: (i) the elimination of the exemption for qualifying special purpose entities, (ii) a new approach for determining who should consolidate a variable-interest entity, and (iii) changes to when it is necessary to reassess who should consolidate a variable-interest entity. This statement is effective for fiscal years beginning after November 15, 2009, and for interim periods within that first annual reporting period. We are currently evaluating the impact of this standard, however, we do not expect SFAS 167 will have a material impact on our consolidated financial statements.

In June 2009, the FASB issued ASC Topic 105, Generally Accepted Accounting Standards, or ASC 105 (previously SFAS No. 168, The FASB Accounting Standards Codification™ and the Hierarchy of Generally Accepted Accounting Principles, a replacement of FASB Statement No. 162), or the Codification. The Codification, which was launched on July 1, 2009, became the single source of authoritative nongovernmental U.S. GAAP, superseding existing FASB, American Institute of Certified Public Accountants, EITF and related literature. The Codification eliminates the GAAP hierarchy contained in ASC 105 and establishes one level of authoritative GAAP. All other literature is considered non-authoritative. ASC 105 is effective for financial statements issued for interim and annual periods ending after September 15, 2009. We adopted ASC 105 as of September 1, 2009 however, references to both current GAAP and the Codification are included in this filing. We have determined that this provision had no material impact on our consolidated financial statements for the year ended August 31, 2010.

In June 2009, the FASB issued ASC Topic 860, Transfers and Servicing (Statement No. 166, Accounting for Transfers of Financial Assets — an amendment of FASB Statement No. 140), or ASC 860. The guidance removes the concept of a qualifying special purpose entity and changes the requirements for derecognizing financial assets. Many types of transferred financial assets that would have been derecognized previously are no longer eligible for

derecognition. The guidance is effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2009, and early adoption is prohibited. The guidance applies prospectively to transfers of financial assets occurring on or after the effective date. We are currently assessing the impact of ASC 860 and do not expect the adoption of this guidance to have a material impact on our consolidated financial statements.

In October 2009, the FASB issued ASU Update No. 2009-13, Revenue Recognition (Topic 605), Multiple Deliverable Revenue Arrangements. This guidance eliminates the residual method of allocation and requires the relative selling price method when allocating deliverables of a multiple-deliverable revenue arrangement. The determination of the selling price for each deliverable requires the use of a hierarchy designed to maximize the use of available objective evidence, including: vendor specific objective evidence, third party evidence of selling price, or estimated selling price. The guidance is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010, and must be adopted in the same period using the same transition method. If adoption is elected in a period other than the beginning of a fiscal year, the amendments in these standards must be applied retrospectively to the beginning of the fiscal year. Full retrospective application of these amendments to prior fiscal years is optional. Early adoption of these standards may be elected. We will adopt these standards on September 1, 2010 and are currently reviewing the impact on our consolidated financial statements.

In January 2010, the FASB issued Accounting Standards Update, or ASU, 2010-06, Fair Value Measurements and Disclosures (Topic 820): Improving Disclosures about Fair Value Measurements, or ASU 2010-6. The ASU amends Subtopic 820-10 with new disclosure requirements and clarification of existing disclosure requirements. New disclosures required include the amount of significant transfers in and out of levels 1 and 2 fair value measurements and the reasons for the transfers. In addition, the reconciliation for level 3 activity will be required on a gross rather than net basis. The ASU provides additional guidance related to the level of disaggregation in determining classes of assets and liabilities and disclosures about inputs and valuation techniques. The amendments are effective for annual or interim reporting periods beginning after December 15, 2009, except for the requirement to provide the reconciliation for level 3 activity on a gross basis, which will be effective for fiscal years beginning after December 15, 2010. We are currently assessing the impact of ASU 2010-6 and do not expect the adoption of this guidance to have a material impact on our consolidated financial statements.

In April 2010, the FASB issued ASU 2010-17, Revenue Recognition – Milestone Method (Topic 605): Milestone Method of Revenue Recognition (“ASU 2010-17”). ASU 2010-17 provides guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Consideration that is contingent on achievement of a milestone in its entirety may be recognized as revenue in the period in which the milestone is achieved only if the milestone is judged to meet certain criteria to be considered substantive. Milestones should be considered substantive in their entirety and may not be bifurcated. An arrangement may contain both substantive and nonsubstantive milestones, and each milestone should be evaluated individually to determine if it is substantive. ASU 2010-17 is effective on a prospective basis for milestones achieved in fiscal years, and interim periods within those years, beginning on or after June 15, 2010, with early adoption permitted. We will adopt ASU 2010-17 as of September 1, 2010 and do not expect the adoption of this guidance to have a material impact on our consolidated financial statements.

DESCRIPTION OF PROPERTY

In March 2006, we entered into a lease for our executive offices and research laboratory in Novato, California. Base monthly payments were \$5,206 per month subject to annual rent increase of between 3% to 5%, based on the Consumer Price Index (“CPI”). In March 2006, we paid \$20,207 as a security deposit on this lease. Effective April 1, 2007, we leased additional office space adjoining the existing leased space, increasing our base rent to \$9,764 per month without extending the term of the original lease. The original lease allows for one three-year extension at the market rate and up to \$18,643 in reimbursement for tenant improvements. In June 2008, our rent increased to \$10,215, reflecting a CPI increase of 3% plus an increase in operating costs for the period from April 1, 2008 to March 31, 2009. In September 2008, we executed a lease addendum replacing the one three-year extension with two two-year extensions commencing on April 1, 2009 and renegotiated the first two-year extension base rent to \$10,068 with an adjustment after the first year for CPI between 3% (minimum) and 5% (maximum). In January 2010, we entered into a one year lease for administrative offices in San Mateo, California for \$2,655 per month. During the years ended August 31, 2010 and 2009 and the cumulative period from September 8, 2005 (inception) to August 31, 2010, we paid \$150,536, \$128,830, and \$518,947, respectively, in rent. We plan to continue to lease administrative offices in San Mateo, California and we plan to expand our Novato office space by approximately 3,100 square feet (\$5,309 per month) in January 2011. We anticipate that the expanded space in Novato will be sufficient for the near future.

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MANAGEMENT

Directors

The following table sets forth the name, age and position of each of our directors as of November 5, 2010.

| Name | Age | Position(s) Held with the Company |
|--|-----|---|
| Christopher M. Starr, Ph.D. | 58 | Chief Executive Officer and Director |
| Raymond W. Anderson (1)(2)(3) | 68 | Director |
| Erich Sager | 52 | Director |
| Richard L. Franklin, M.D., Ph.D. (1)(2) | 65 | Director |
| Llew Keltner, M.D., Ph.D. (1)(2)(3) | 60 | Director |

(1) Member of the Corporate Governance and Nominating Committee.

(2) Member of the Audit Committee.

(3) Member of the Compensation Committee.

All of the current members of our board of directors were appointed in connection with the consummation of the 2009 Merger. Prior to the 2009 Merger, Drs. Starr and Franklin, and Messrs. Anderson and Sager served on the board of directors of RPC. Each of the current members of our board of directors has been elected to serve until our next annual meeting of stockholders or until their respective successors are duly elected and qualified.

Business Experience and Directorships

The following describes the background of our directors.

Christopher M. Starr, Ph.D., Chief Executive Officer. Dr. Starr has served as the Chief Executive Officer and a director of Raptor Pharmaceutical Corp. since September 2009. Dr. Starr was a co-founder of RPC and has served as the Chief Executive Officer, President and director thereof since its inception in 2006. Dr. Starr has served as Chief Executive Officer of our wholly owned subsidiary, Raptor Pharmaceutical Inc., since its inception in September 2005. Dr. Starr co-founded BioMarin Pharmaceutical Inc., or BioMarin, in 1997 where he last served as Senior Vice President and Chief Scientific Officer prior to joining the Company in 2006. As Senior Vice President at BioMarin, Dr. Starr was responsible for managing a Scientific Operations team of 181 research, process development, manufacturing and quality personnel through the successful development of commercial manufacturing processes for its enzyme replacement products, and supervised the cGMP design, construction and licensing of BioMarin's proprietary biological manufacturing facility. From 1991 to 1998, Dr. Starr supervised research and commercial programs at BioMarin's predecessor company, Glyko, Inc., where he served as Vice President of Research and Development. Prior to his tenure at Glyko, Inc., Dr. Starr was a National Research Council Associate at the National Institutes of Health. Dr. Starr earned a B.S. from Syracuse University and a Ph.D. in Biochemistry and Molecular

Biology from the State University of New York Health Science Center, in Syracuse, New York. We nominated Dr. Starr to the Board of Directors due to his extensive experience at BioMarin Pharmaceutical where he was directly involved in the successful approval of two drugs for orphan indications.

Raymond W. Anderson. Mr. Anderson has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since May 2006. Mr. Anderson worked at Dow Pharmaceutical Sciences, Inc. (a wholly owned subsidiary of Valeant Pharmaceuticals International) from 2003 until he retired in June 2010, had been its Managing Director since August 2009 and was previously its Chief Financial Officer and Vice President, Finance and Administration. Mr. Anderson has more than 30 years of healthcare industry experience, primarily focused in financial management within the biopharmaceutical sector. Prior to joining Dow in 2003, he was Chief Financial Officer for Transurgical, Inc., a private medical technology company.

Prior to that, Mr. Anderson served as Chief Operating Officer and Chief Financial Officer at BioMarin from June 1998 to January 2002. Prior to June 1998, Mr. Anderson held similar executive-level positions with other biopharmaceutical companies including Syntex, Chiron, Glycomed and Fusion Medical Technologies. Mr. Anderson holds an M.B.A. from Harvard University, an M.S. in Administration from George Washington University and a B.S. in Engineering from the United States Military Academy. We nominated Mr. Anderson to the Board of Directors due to his 30 years of healthcare experience in the areas of operations and finance.

Erich Sager. Mr. Sager has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since May 2006. He is a founding partner of Limetree Capital SA, a Swiss-based investment banking boutique. Mr. Sager also serves as Chairman and member of the board of directors at Calltrade Carrier Services AG, a European wholesale phone operator, and has held such position since 2004. He is also a current board member of Zecotek Medical Systems Inc. and Pulse Capital Corp. Mr. Sager served on the board of directors of BioMarin from November 1997 to March 2006 and as Chairman of LaMont Asset Management SA, a private investment management firm, from September 1996 until August 2004. Mr. Sager has held the position of Senior Vice President, Head of the Private Banking for Dresdner Bank (Switzerland) Ltd., Vice President, Private Banking, Head of the German Desk for Deutsche Bank (Switzerland) Ltd., and various positions at banks in Switzerland. Mr. Sager received a business degree from the School of Economics and Business Administration, Zurich, Switzerland. We nominated Mr. Sager to the Board of Directors due to his knowledge of healthcare fundraising in Europe including through his experience at BioMarin Pharmaceutical.

Richard L. Franklin, M.D., Ph.D. Dr. Franklin has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since July 2008. Dr. Franklin has served as Chairman of the board of directors of SyntheMed, Inc., a biomaterials company engaged in the development and commercialization of medical devices, since June 2003 and as a director of SyntheMed, Inc., since December 2000. Since September 2002, Dr. Franklin has been Chairman of DMS Data Systems, an internet-based information services company. Dr. Franklin has served as the Chief Executive Officer and Director of Tarix Pharmaceuticals, a drug development company, since 2004 and as Chairman of Pathfinder, LLC, a regenerative medicine company, since 2009. From May 1996 to September 2002, Dr. Franklin had been Chief Executive of Phairson, Ltd., a medical product development company. From January 1991 to May 1996, Dr. Franklin was founder and principal of Richard Franklin & Associates and from January 1988 to December 1990, Dr. Franklin was with Boston Capital Group, both of which are consulting firms to the healthcare industry. From July 1986 to December 1987, Dr. Franklin was head of Healthcare Corporate Finance at Tucker Anthony, an investment banking firm. Dr. Franklin received an M.A. in Mathematics from University of Wisconsin, a Ph.D. in Mathematics from Brandeis University and an M.D. from Boston University School of Medicine. We nominated Dr. Franklin to the Board of Directors due to his experience as a CEO and Chairman of various healthcare companies.

Llew Keltner, M.D., Ph.D. Dr. Keltner has served as a director of Raptor Pharmaceutical Corp. since September 2009. Dr. Keltner was Chief Executive Officer and President of Light Sciences Oncology, a privately-held biotechnology company developing a late stage, light-activated therapy for hepatocellular cancer and other solid tumors, from 2001 to 2010. He is also Chief Executive Officer of EPISTAT, an international healthcare technology transfer, corporate risk management and healthcare strategy company that he founded in 1972. From 1997 to 2004, Dr. Keltner was Chief Executive Officer of Metastat, a development-stage biotech company focused on cancer metastasis. Dr. Keltner holds positions on the boards of Infostat, Oregon Life Sciences, and Goodwell Technologies. He is a previous director on the boards of Light Sciences Corporation, Vital Choice, Thesis Technologies, Oread Companies, and MannKind Corporation. He has also been a scientific advisory board member at Lifetime

Corporation, ASB Meditest, Oread Laboratories, Hall-Kimbrell, and aai Pharma. He is currently a member of the American Society of Clinical Oncology, American Medical Association, International Association of Tumor Marker Oncology, American Association of Clinical Chemistry, and Drug Information Association. Dr. Keltner received an M.S. in Epidemiology and Biostatistics; Ph.D. in Biomedical Informatics and M.D. from Case Western Reserve University in Cleveland, Ohio. Dr. Keltner has also authored several research publications. We nominated Dr. Keltner to the Board of Directors due to his practical experience as a current CEO of a private life sciences company and due to his medical knowledge and network within the biotechnology industry.

Meetings and Committees of the Board of Directors

From September 29, 2009 (consummation of the 2009 Reverse Merger) through August 31, 2010, the board of directors met seven times, took action by written consent seven times and took action by written consent regarding the approval of stock options five times. Each director attended at least 75% of (a) the total number of meetings of the board of directors, and (b) the total number of meetings of all committees of the board of directors on which he served. All of our directors attended our 2010 annual meeting of stockholders.

We do not have a formal policy requiring the members of our board of directors to attend our annual meetings of stockholders; however, it is anticipated that most of the directors will attend the annual meeting.

There are no arrangements between any director of the Company or executive officer and any other person pursuant to which the director or officer is to be selected as such. There is no family relationship between our directors, executive officers or the director nominees.

Our board of directors has an Audit Committee, a Compensation Committee and a Nominating and Corporate Governance Committee. The function, composition and number of meetings of each of these committees are described below.

Audit Committee

The audit committee of our board of directors, herein referred to as the Audit Committee, has been established in accordance with Section 3(a)(58)(A) of the Exchange Act. The Audit Committee is responsible for overseeing our accounting and financial reporting processes. In such capacity, our Audit Committee (a) has sole authority to appoint, replace and compensate our independent registered public accounting firm and is directly responsible for oversight of its work; (b) approves all audit fees and terms, as well as any permitted non-audit services performed by our independent registered public accounting firm; (c) meets and discusses directly with our independent registered public accounting firm its audit work and related matters; (d) oversees and performs investigations with respect to our internal and external auditing procedures, including the receipt, retention and treatment of complaints received by us regarding accounting, internal accounting controls or auditing matters and the confidential and anonymous submission by employees of concerns regarding questionable accounting or auditing matters and (e) undertakes such other activities as the Audit Committee deems necessary or advisable and as may be required by applicable law.

As of November 5, 2010, the Audit Committee consisted of Mr. Anderson (Chairman) and Drs. Franklin and Keltner. Mr. Anderson has been designated as the “audit committee financial expert” as defined by the regulations promulgated by the SEC. Our board of directors has determined that each member of the Audit Committee is independent as defined by NASDAQ and SEC rules applicable to audit committee members.

During the fiscal year ended August 31, 2010, the audit committee met four times. The charter of the Audit Committee can be found in the “Investors & Media—Corporate Governance” section of our website at www.raptorpharma.com

Compensation Committee

The compensation committee of our board of directors, herein referred to as the Compensation Committee, reviews, adopts and oversees our compensation strategy, policies, plans and programs, including (a) the establishment of corporate and individual performance objectives relevant to the compensation of our executive officers, directors and other senior management and evaluation of performance, (b) the review and approval of the terms of employment or service, including severance and change in control arrangements, of our Chief Executive Officer and the other executive officers, (c) the review and recommendation to the board of directors the compensation plans and programs advisable for the Company, including the type and amount of compensation to be paid or awarded to directors; and (d) the administration of our equity compensation plans, pension and profit-sharing plans, deferred compensation plans and other similar plan and programs.

The Compensation Committee also reviews with management our Compensation Discussion and Analysis and considers whether to recommend that it be included in proxy statements and other filings.

The Compensation Committee's charter can be found in the "Investors & Media—Corporate Governance" section of our website at www.raptorpharma.com. As of November 5, 2010, the Compensation Committee consisted of Mr. Anderson (Chairman) and Dr. Keltner. Our board of directors has determined that each member of the Compensation Committee is independent as defined by NASDAQ rules.

Corporate Governance and Nominating Committee and other Committees

The corporate governance and nominating committee of our board of directors, herein referred to as the Nominating Committee, has authority to review the qualifications of, interview and nominate candidates for election to our board of directors as well as develop a set of corporate governance principles for the Company. The primary functions of our Nominating Committee are to (a) recruit, review and nominate candidates for election to our board of directors, (b) monitor and make

recommendations regarding committee functions, contributions and composition, (c) develop the criteria and qualifications for membership on our board of directors, and (d) provide oversight on all aspects of the Company's corporate governance functions.

The Nominating Committee develops the credentials and characteristics required of our board of directors and committee nominees in light of the composition of our board of directors and committees thereof, our business, operations, applicable legal and listing requirements, and other factors they consider relevant. The Nominating Committee may identify other candidates, if necessary, through recommendations from our directors, management, employees, the stockholder nomination process, or outside consultants. The Nominating Committee will review candidates in the same manner regardless of the source of the recommendation. For membership on our board of directors, the Nominating Committee takes into consideration applicable laws and regulations, diversity, age, skills, experience, integrity, ability to make independent analytical inquiries, understanding of our business and business environment, willingness to devote adequate time and effort to our board of directors' responsibilities and other relevant factors, including experience in the biotechnology and pharmaceutical industries. Although we do not have a formal diversity policy, when considering diversity in evaluating candidates, the Nominating Committee focuses on whether candidates can contribute varied perspectives, skills, experiences and expertise to the Board. The Nominating Committee's charter can be found in the "Investors & Media—Corporate Governance Corporate Governance" section of our website at www.raptorpharma.com.

As of November 5, 2010, the Nominating Committee consisted of Dr. Keltner (Chairman), Dr. Franklin and Mr. Anderson. Our board of directors has determined that each member of the Nominating Committee is independent as defined by NASDAQ rules.

During the fiscal year ended August 31, 2010, the nominating and corporate governance committee of RPC consisted of the following members: Mr. Sager, Mr. Anderson, Dr. Franklin and Dr. Starr. In September 2009, upon recommendation from Dr. Starr, the remaining three directors (Mr. Sager, Dr. Franklin and Mr. Anderson) individually met with Dr. Keltner in order to determine the suitability of Dr. Keltner for joining our board of directors in order to fulfill the our post-merger corporate governance commitments and NASDAQ listing requirements.

After several discussions with Dr. Keltner and amongst the members of RPC's board of directors prior to Dr. Keltner's appointment, the board determined that, based upon Dr. Keltner's experience in the healthcare industry, it was in our and our stockholders best interests to appoint Dr. Keltner to our board of directors following the 2009 Merger.

Independence of Our Board of Directors

Our board of directors has determined that all current members of our board of directors are independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards), except for Dr. Starr and Mr. Sager. Our board of directors has also determined that each member of our Audit Committee, Compensation Committee and Corporate Governance and Nominating Committee is independent as defined by the SEC and NASDAQ rules.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors, executive officers and holders of more than ten percent of a registered class of our equity securities, or 10% Stockholders, to file reports of ownership and reports of changes in ownership of our common stock and other equity securities with the SEC. Directors, executive officers and 10% Stockholders are required to furnish us with copies of all Section 16(a) forms they file. To our knowledge, based on a review of the copies of such reports furnished to us, we believe that during the fiscal year ended August 31, 2010, our directors, executive officers and 10% Stockholders timely filed all Section 16(a) reports applicable to them. During the fiscal year ended August 31, 2010, the following Form 4s were filed late: Dr. Rioux filed a Form 4 on July 9, 2010, which was seven business days late, reporting the receipt of a stock option grant in fulfillment of a milestone; Mr. Daley filed a Form 4 on July 9, 2010, which was eight business days late, reporting the receipt of restricted common stock in fulfillment of a milestone; and Dr. Franklin filed a Form 4 on March 12, 2010, which was one day late, reporting the receipt of a stock option grant for compensation for his services as a director.

-Code of Ethics

We have adopted a Code of Business Conduct and Ethics, which is applicable to our directors and employees, including our principal executive officer, principal financial officer, principal accounting officer or controller or persons performing similar functions. Our Code of Business Conduct and Ethics is posted on the “Investors & Media - Corporate Governance” section of our website at www.raptorpharma.com. If we make any substantive amendments to our Code of Business Conduct and Ethics or grant any waiver from a provision of the Code of Business Conduct and Ethics to any executive officer or director, we will promptly disclose the nature of the amendment or waiver in the “Investors & Media—Corporate Governance” section of our website at www.raptorpharma.com and/or in our public filings with the SEC.

Executive Officers

The following table sets forth the name, age, date first appointed to serve as an executive officer, and position held by each of our executive officers as of November 5, 2010. Our executive officers are elected by our board of directors on an annual basis and serve at the discretion of our board of directors or until their successors have been duly elected and qualified.

| Name | Age | Position(s) Held with the Company |
|-------------------------------|-----|--|
| Christopher M. Starr, Ph.D. | 58 | Chief Executive Officer and Director |
| Todd C. Zankel, Ph.D. | 47 | Chief Scientific Officer |
| Thomas (Ted) E. Daley | 47 | President, Raptor Therapeutics Inc. |
| Patrice P. Rioux, M.D., Ph.D. | 59 | Chief Medical Officer, Raptor Therapeutics Inc. |
| Kim R. Tsuchimoto | 47 | Chief Financial Officer, Treasurer and Secretary |

The following describes the background of our executive officers except for Dr. Starr, whose background is described above under the heading “Business Experience and Directorships.”

Todd C. Zankel Ph.D. As of September 29, 2009, Dr. Zankel was appointed our Chief Scientific Officer. Prior to that, Dr. Zankel was a co-founder and has been Chief Scientific Officer of our wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Pharmaceuticals Corp., since their inception in 2006. From 1997 to 2005, Dr. Zankel served as a Senior Director of Research at BioMarin. Prior to 1997, Dr. Zankel was a fellow for the National Institutes of Health at the Plant Gene Expression Center in Berkeley, California and at the Swiss Institute of Technology in Zurich, Switzerland. Dr. Zankel has been the author of a number of peer-reviewed articles in a variety of scientific areas. Dr. Zankel earned a B.A. from Reed College in Portland, Oregon and a Ph.D. from Columbia University.

Thomas (Ted) E. Daley. As of September 29, 2009, Mr. Daley joined us as President and a board member of Raptor Therapeutics Inc., a wholly-owned indirect subsidiary acquired in the 2009 Merger. Mr. Daley joined Raptor Therapeutics Inc. following the acquisition by it of Convivia, Inc., which Mr. Daley founded. Mr. Daley was co-founder, VP business development and chief operating officer of Instill Corporation, a leading electronic commerce services provider to the US foodservice industry. Between 1993 and 2001 Mr. Daley helped raise over \$50 million in venture capital and build Instill to a 150+ person operation with a nationwide customer base. After leaving Instill, from 2001 and 2007, Mr. Daley served in executive and consulting roles to a number of technology startup companies including MetricStream, Inc., PartsRiver and Certicom Security. Prior to that time, Mr. Daley worked in operations management for Anheuser-Busch, Inc., and consulted to Gordon Biersch Brewing Company and Lion Breweries (New Zealand). Mr. Daley received a BS in Fermentation Science from University of California at Davis, and an MBA from Stanford University.

Patrice P. Rioux, M.D., Ph.D. As of September 29, 2009, Dr. Rioux joined us as Chief Medical Officer of Raptor Therapeutics Inc., a wholly-owned indirect clinical subsidiary acquired in the 2009 Merger. Prior to joining Raptor Therapeutics Inc. in April 2009, from November 2008 until March 2009, Dr. Rioux served as Chief Medical Officer of FerroKin Biosciences, an early-stage developer of iron chelator for treatment of anemias. From May 2005 to October 2008, he was Chief Medical Officer and Vice President Clinical/Regulatory for Edison Pharmaceuticals, which focused on developing drugs to treat inherited and acquired energy impairment diseases. From January 2004 through March 2006, Dr. Rioux was an independent clinical operations consultant. Dr. Rioux' three-decade career includes positions at Repligen Corp., Arrow International, Variagenics, Inc., Biogen and GRP (Groupement de Recherche en Pharmacologie). From 1975 to 1995, Dr. Rioux was a researcher in Clinical Research and Epidemiology at INSERM (Institut National de la Sante et de la Recherche Medicale), a French organization that supports national research in the medical field. Educated in France, Dr. Rioux has an M.D., a Ph.D. in Mathematical Statistics, and a Masters degree in Pharmacology.

Kim R. Tsuchimoto. As of September 29, 2009, Ms. Tsuchimoto was appointed our Chief Financial Officer, Treasurer and Secretary. Prior to that Ms. Tsuchimoto has served as the Chief Financial Officer, Treasurer and Secretary of our wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Pharmaceuticals Corp., since their respective inceptions in 2006. Prior to this, Ms. Tsuchimoto served as Interim Controller at International Microcomputer Software, Inc., a software and Internet content company, from October 2005 to March 2006. From June 2005 to August 2005, Ms. Tsuchimoto served as Assistant Vice President, Controller at SpatialLight Inc., a high technology company.

From February 1997 to June 2005, Ms. Tsuchimoto served at BioMarin and its predecessor company, Glyko, Inc., most recently as Vice President, Treasurer for two years, Vice President, Controller for two years and prior to that, as Controller. Prior to her employment at BioMarin, Ms. Tsuchimoto served as Controller of a marketing consulting firm and an international venture capital firm and worked as a staff accountant in a local public accounting firm. Ms. Tsuchimoto is an inactive licensed California Certified Public Accountant and holds a B.S. in Business Administration with an emphasis in Accounting from San Francisco State University.

Relationships Among Executive Officers and Directors

There are no family relationships among any of our directors or executive officers.

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EXECUTIVE COMPENSATION

Stock Option and Equity Incentive Programs

Stock Options. Stock options granted by us have an exercise price equal to the fair market value of our common stock on the day prior to grant, typically vest over a four-year period with 6/48ths vesting six months after the vesting commencement date and the remainder vesting ratably each month thereafter based upon continued employment, and generally expire ten years after the date of grant. Incentive stock options also include certain other terms necessary to assure compliance with the Code.

The options that were granted to named executive officers are set forth in the “Grants of Plan-Based Awards” table below. All options granted to named executive officers are intended to be qualified incentive stock options as defined under Section 422 of the Code to the extent possible. Pursuant to Dr. Rioux’s offer letter executed in April 2009, Dr. Rioux is eligible to receive separate grants of bonus stock options exercisable for up to 11,656 shares of our common stock on achievement during his employment of the following milestones: achievement of a successful pilot clinical trial of DR Cysteamine in cystinosis; first patient dosed in a pivotal clinical trial of DR Cysteamine in cystinosis; filing of a New Drug Application for DR Cysteamine in cystinosis; and marketing approval of DR Cysteamine in cystinosis. In March 2010, Dr. Rioux was granted options to purchase 11,656 of our common stock for the issuance of a final clinical study report of our pilot clinical trial of DR Cysteamine. Such stock options vested immediately with an exercise price of \$1.66 per share and expire in 10 years from grant. In June 2010, Dr. Rioux was granted options to purchase 11,656 of our common stock for the commencement of our pivotal Phase 3 clinical trial of DR Cysteamine. Such stock options vested immediately with an exercise price of \$3.05 per share and expire in 10 years from grant. In November 2010, Dr. Rioux agreed to accept a cash bonus of \$25,000 in lieu of cancelling the potential milestone stock option grants for filing for marketing approval of DR Cysteamine for cystinosis and for the potential resultant marketing approval.

In March 2010, the Compensation Committee hired an outside consultant to benchmark our salaries and bonuses against a well-established industry salary survey for life science companies in the San Francisco Bay Area with less than 50 employees. The Compensation Committee also reviewed the progress we had achieved to-date. Along with the cash bonuses and salary review, the Compensation Committee recommended and the full Board approved the following stock option grants to officers at an exercise price of \$2.02 per share, vesting commencing September 1, 2009 with a six month cliff vest and 1/48th per month thereafter with a 10 year expiry from grant date: Dr. Starr 46,750; and Mr. Daley 18,900.

Named Executive Officer Compensation

Summary Compensation Table

| Name and Principal Position | Fiscal Year (ending | Salary (\$)(1) | Bonus (\$)* | Stock Awards (1)(\$) | Option Awards (2)(\$) | Non-Equity Incentive Compensation (\$) | NQDC Plan Earnings (\$) | All Other Compensation (\$)(3) | Total (\$) |
|-----------------------------|---------------------|----------------|-------------|----------------------|-----------------------|--|-------------------------|--------------------------------|------------|
|-----------------------------|---------------------|----------------|-------------|----------------------|-----------------------|--|-------------------------|--------------------------------|------------|

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| | | | | | | | | | |
|---|------|---------|--------|--------|--------|---|---|-------|---------|
| Christopher M. Starr, Ph.D. Chief Executive Officer and Director | 2010 | 277,200 | 68,280 | — | 8,827 | — | — | 1,266 | 355,573 |
| | 2009 | 213,610 | — | — | 27,883 | — | — | 6,399 | 247,892 |
| Ted Daley, President, Raptor Therapeutics Inc | 2010 | 240,800 | 78,100 | 35,551 | 25,992 | — | — | 1,234 | 381,677 |
| | 2009 | 208,401 | 40,000 | 27,000 | 22,077 | — | — | 7,806 | 305,284 |

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| | | | | | | | |
|--|------|---------|--------|---------|---|--------|---------|
| Patrice P. Rioux, M.D., PhD. Chief Medical Officer, Raptor Therapeutics Inc | 2010 | 283,208 | 25,000 | -47,074 | — | -1,678 | 356,950 |
| | 2009 | 94,759 | — | -1,696 | — | -419 | 96,874 |

* Cash bonuses for 2010 include accruals of bonuses paid in October 2010 based upon milestones achieved by us for the period March 1, 2010 through August 31, 2010 as follows: Dr. Starr, \$41,580; Mr. Daley \$30,100; and Dr. Rioux \$25,000.

- (1) Dr. Starr's full time employment commenced on May 1, 2006 at an annual base salary of \$150,000. Dr. Starr's salary increased to \$213,610 in July 2008 and to \$277,200 effective on September 1, 2009. Mr. Daley's full-time employment commenced on September 10, 2007 at an annual base salary of \$150,000, which increased to \$208,401 in July 2008 and to \$240,800 effective September 1, 2009. Dr. Rioux's full time employment commenced on April 15, 2009 at an annual base salary of \$280,000, which increased to \$287,000 effective April 15, 2010.
- (2) This column represents the dollar amount recognized for financial statement reporting purposes with respect to the fiscal years ended August 31, 2010 and 2009 for the fair value of the stock options granted to each of named executive officers since inception, in accordance with ASC Topic 718. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. For additional information on the valuation assumptions with respect to the fiscal years ended August 31, 2010 and 2009, please refer to the notes in our consolidated financial statements included elsewhere in this prospectus. These amounts reflect our accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers.
- (3) All Other Compensation includes 401(k) matching funded by us through March 28, 2009, at which time such matching was discontinued, and life insurance premiums paid by us where the executive is the beneficiary.

Employment Agreements

Drs. Starr and Zankel and Ms. Tsuchimoto entered into employment agreements with our wholly owned subsidiaries, Raptor Pharmaceutical Inc. and RPC, in May 2006. The employment agreements described below remained operative following the consummation of the 2009 Merger and are currently still in effect.

Each employment agreement had an initial term of three years commencing on May 1, 2006 in the case of Dr. Starr and Ms. Tsuchimoto and May 15, 2006 in the case of Dr. Zankel, and automatically renews for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under their agreements, each officer is entitled to an annual salary (\$150,000 each for Drs. Starr and Zankel and \$160,000 for Ms. Tsuchimoto), the amount of which may be increased from time to time in the discretion of our board of directors, and stock options to purchase 58,281 shares of our common stock, which vested over three years with a six month cliff vest. Dr. Starr's, Dr. Zankel's and Ms. Tsuchimoto's annual salaries are subject to annual review and potential increase by our board of directors. In addition, they are each eligible to receive annual bonuses in cash or stock options as awarded by our board of directors, at its discretion. Information regarding Dr. Starr's annual salary and bonus received during the year ended August 31, 2010 are described above under the heading "Named Executive Officer Compensation."

On September 7, 2007, our wholly-owned subsidiary, Raptor Therapeutics Inc., entered into an employment agreement with Ted Daley for a term of 18 months which automatically renews for additional one year periods unless either party under such agreement notifies the other that the term will not be extended. Under Mr. Daley's agreement, Mr. Daley is entitled to an annual salary of \$150,000 and stock options to purchase 34,969 shares of our common stock at an exercise price of \$2.23 per share, which vest over four years with a six month cliff vest. In August 2008, RPC's compensation committee recommended, and its full board of directors approved, a stock option grant to Mr. Daley for the purchase of 23,313 shares of our common stock at an exercise price of \$1.88 per share, which vests 6/48ths upon the six-month anniversary of the grant date and 1/48th per month thereafter and expires ten years from the grant date. Mr. Daley's 2008 stock options were granted in order to increase his initial employment stock option grant to be equal to the stock option grants of our other executive officers. Mr. Daley's annual salary is subject to annual review and potential increase by our board of directors. In addition, Mr. Daley is eligible to receive certain bonuses in cash and stock options based on triggering events related to the successful development of our Convivia™ product development program. Information regarding Mr. Daley's annual salary and bonuses received during the year ended August 31, 2010 are described above under the heading "Named Executive Officer Compensation."

Each of Drs. Starr's and Zankel's, Ms. Tsuchimoto's and Mr. Daley's respective employment agreements were amended effective as of January 1, 2009 for purposes of bringing such employment agreements into compliance with the applicable provisions of Section 409A of the Code and the Treasury Regulations and interpretive guidance issued thereunder.

In April 2009, RPC executed an employment offer to Dr. Rioux with an annual base salary of \$280,000. Dr. Rioux's annual salary is subject to annual review and potential increase by our board of directors. In addition, Dr. Rioux is eligible to receive certain bonuses in cash and stock options based on triggering events related to the successful development of DR Cysteamine. Information regarding Dr. Rioux's annual salary and bonuses received during the year ended August 31, 2010 are described above under the heading "Named Executive Officer Compensation."

Except for Dr. Rioux and Mr. Daley, if any officer's employment is constructively terminated or terminated by us without cause, including in the event of a change of control, then such officer will be entitled to continue to receive his or her base salary, bonuses and other benefits for a period of 12 months from the date of termination. If Dr. Rioux's or Mr. Daley's employment is constructively terminated or terminated by us without cause, including in the event of a change of control, then he will be entitled to continue to receive his base salary and other certain benefits for a period of six months from the date of termination.

Except for Dr. Rioux, if any officer's employment is terminated for cause, by death or due to a voluntary termination, we shall pay to such officer, or in the case of termination due to death, his or her estate, the compensation and benefits payable through the date of termination.

Except for Dr. Rioux, if any officer's employment is terminated due to disability, we shall pay to such officer the compensation and benefits payable through the date of termination and shall continue to pay such officer salary and a prorated bonus for three months following such termination, at the end of which time such officer may be entitled to receive short-term and eventually long-term disability benefits, subject to the terms of and pursuant to our then current disability insurance plans.

Stock Option Grants and Exercises During the Fiscal Year Ended August 31, 2010

Grants of Plan-Based Awards Table

The following table sets forth information concerning stock option grants made during the fiscal year ended August 31, 2010 to our executive officers named in the "Summary Compensation Table" above. The fair value information in the far right column is for illustration purposes only and is not intended to predict the future price of our common stock. The actual future value of such stock options will depend on the market value of our common stock.

| Estimated Future Payouts Under Non-Equity Incentive | Estimated Future Payouts Under Equity | All Other | All Other Option | Exercise or Base | Grant Date |
|--|--|--------------|---------------------|---------------------|---------------|
|--|--|--------------|---------------------|---------------------|---------------|

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| Name | Grant Date | Thres-hold (\$) | Target (\$) | Maximum (\$) | Threshold (\$) | Target (\$) | Maximum (\$) | Or Units (#) | Options (#) | Price of Option Awards (\$/Sh) | Fair Value |
|-----------------------------|------------|-----------------|-------------|--------------|----------------|-------------|--------------|--------------|-------------|--------------------------------|---------------------|
| | | | | | | | | | | | of Stock and Option |
| Christopher M. Starr, Ph.D. | 3/9/10 | — | — | — | — | — | — | — | 46,750 | 2.02 | 8,827 |
| Ted Daley | 3/9/10 | — | — | — | — | — | — | — | 18,900 | 2.02 | 3,569 |

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Patrice P.

Rioux,

M.D., 3/30/10 — — — — — — — 11,656 1.66 13,969

Ph.D. 6/28/10 — — — — — — — 11,656 3.05 25,636

(1) These stock options vest 6/48ths on the six-month anniversary of the grant date and 1/48th per month thereafter. The options expire 10 years from grant date.

(2) This column represents the dollar amount recognized for financial statement reporting purposes with respect to our year ended August 31, 2010 for the fair value of the stock options granted to each of the named executive officers in the fiscal year ended August 31, 2010 in accordance with ASC Topic 718. The amounts shown exclude the impact of estimated forfeitures related to service-based vesting conditions. These amounts reflect our accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive officers.

Outstanding Equity Awards at August 31, 2010

The following table sets forth certain information with respect to outstanding stock option awards of our executive officers for the fiscal year ended August 31, 2010.

Option Awards

| Name | Equity Incentive Plan Awards: | | | Option Exercise Price (\$) | Option Expiration Date |
|-------------------------------|---|---|---|----------------------------|-------------------------------------|
| | Number of Securities Underlying Unexercised Options (#) Exercisable | Number of Securities Underlying Unexercised Options (#) Unexercisable | Number of Securities Underlying Unexercised Options (#) | | |
| Christopher M. Starr, Ph.D. | 58,281 (1) 10,719(3) | — 36,031 | — — | 2.83 2.02 | 5/26/2016 3/9/2020 |
| Ted Daley | 25,497 (2) 11,656 (2) 4,333 (3) | 9,472 11,657 14,567 | — — — | 2.23 1.88 2.02 | 9/10/2017 8/12/2018 3/9/2020 |
| Patrice P. Rioux, M.D., Ph.D. | 11,656 (2) 11,656 (4) 11,656 (4) | 23,313 — — | — — — | 0.85 1.66 3.05 | 4/16/2019 3/30/2020 6/28/2020 |

(1) Stock options vest 6/36ths on the six month anniversary of grant date and 1/36th per month thereafter.

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- (2) Stock options vest 6/48ths on the six month anniversary of grant date and 1/48th per month thereafter.
- (3) Stock options vest 6/48ths on grant date and 1/48th per month thereafter.
- (4) Stock options vest 100% upon grant date.

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Option Exercises

There were no option exercises by our executive officers during the fiscal year ended August 31, 2010.

Executive Payments Upon Termination

Change in control arrangements are designed to retain executives and provide continuity of management in the event of a change in control. These agreements are described in more detail elsewhere in this prospectus, including the section titled “Employment Agreements” and “Named Executive Officer Compensation.”

The following table quantifies the amounts that we would owe each of our executive officers upon each of the termination triggers discussed above under “Employment Agreements” assuming a termination date of August 31, 2010:

Christopher M. Starr, Ph.D.

Chief Executive Officer, President and Director

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated |
|---|------------------|-------------|---|--|
| Base Salary | \$ 69,300(3) | \$ — | 277,200(2) | \$ 277,200(2) |
| Short-Term Incentive | —(4) | —(4) | —(5) | —(5) |
| Value of Unvested Equity Awards and Accelerated Vesting Stock | — | — | — | 55,564 (6) |
| Total | \$ 69,300 | \$ — | \$ 277,200 | \$ 332,764 |

(1) “CIC” means change in control, as defined in the officer’s employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with ASC Topic 718. The amount shown excludes the impact of estimated forfeitures related to service-based vesting conditions. This amount reflects our accounting expense for these awards, and does not correspond to the actual value that will be recognized by the officer

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Todd C. Zankel, Ph.D.
Chief Scientific Officer

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated (1) |
|--|--------------|-------|---|--|
| Base Salary | \$49,275 (3) | \$ | \$ 197,100(2) | \$ 197,100(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting Stock Options | | | | 23,644(6) |
| Total | \$49,275 | \$ | \$ 197,100 | \$ 220,744 |

(1) "CIC" means change in control, as defined in the officer's employment agreement.

(2) 12 months base salary.

(3) 3 months base salary.

(4) Pro rata bonus.

(5) Full cash bonus otherwise payable.

(6) Vesting of all stock options granted in accordance with ASC Topic 718. The amount shown excludes the impact of estimated forfeitures related to service-based vesting conditions. This amount reflects our accounting expense for these awards, and does not correspond to the actual value that will be recognized by the officer.

-Kim R. Tsuchimoto

Chief Financial Officer, Secretary and Treasurer

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated (1) |
|--|--------------|-------|---|--|
| Base Salary | \$60,200 (3) | \$ | \$ 240,800(2) | \$ 240,800(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting Stock Options | | | | 29,060(6) |
| Total | \$60,200 | \$ | \$ 240,800 | \$ 269,860 |

(1) "CIC" means change in control, as defined in the officer's employment agreement.

(2) 12 months base salary.

- (3) 3 months base salary.
- (4) Pro rata bonus.

- (5) Full cash bonus otherwise payable.
 (6) Vesting of all stock options granted in accordance with ASC Topic 718. The amount shown excludes the impact of estimated forfeitures related to service-based vesting conditions. This amount reflects our accounting expense for these awards, and does not correspond to the actual value that will be recognized by the officer

Ted Daley

President, Raptor Therapeutics Inc.

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated (1) |
|---|-----------------|-----------|---|--|
| Base Salary | \$60,200 (3) | \$ | \$ 120,400(2) | \$ 120,400(2) |
| Short-Term Incentive | (4) | (4) | (5) | (5) |
| Value of Unvested Equity Awards and Accelerated Vesting Stock Options | | | | 53,176(6) |
| Total | \$60,200 | \$ | \$ 120,400 | \$ 173,576 |

- (1) "CIC" means change in control, as defined in the officer's employment agreement.
 (2) 6 months base salary.
 (3) 3 months base salary.
 (4) Pro rata bonus.
 (5) Full cash bonus otherwise payable.
 (6) Vesting of all stock options granted in accordance with ASC Topic 718. The amount shown excludes the impact of estimated forfeitures related to service-based vesting conditions. This amount reflects our accounting expense for these awards, and does not correspond to the actual value that will be recognized by the officer.

Patrice P. Rioux, M.D., Ph.D.

Chief Medical Officer, Raptor Therapeutics Inc.

| Executive Benefits and Payments Upon Termination | Disability | Death | Termination Without Cause or Constructive Termination | CIC Whether or Not Services are Terminated (1) |
|--|------------|-------|---|--|
| Base Salary | \$ | \$ | \$ 143,500 (2) | \$ 143,500(2) |
| Short-Term Incentive | | | | |

| | | | | | |
|---|----|----|----|---------|------------|
| Value of Unvested Equity Awards and Accelerated Vesting Stock Options | | | | | 19,648(3) |
| Total | \$ | \$ | \$ | 143,500 | \$ 163,148 |

- (1) "CIC" means change in control, as defined in the officer's employment agreement.
- (2) 6 months base salary.
- (3) Vesting of all stock options granted in accordance with ASC Topic 718. The amount shown excludes the impact of estimated forfeitures related to service-based vesting conditions. This amount reflects our accounting expense for these awards, and does not correspond to the actual value that will be recognized by the officer.

Equity Compensation Plan Information

The following table provides certain information with respect to all of our equity compensation plans in effect as of August 31, 2010:

| Plan Category | Number of securities to be issued upon exercise of outstanding options, warrants and rights | Weighted average exercise price of outstanding options, warrants and rights | Number of securities remaining available for future issuance under equity compensation plans |
|--|---|---|--|
| Equity compensation plans approved by stockholders | 1,391,288 | 14.25 | 2,697,228 |
| Equity compensation plans not approved by stockholders | - | - | - |
| Total | 1,391,288 | 14.25 | 2,697,228 |

Director Compensation

Effective October 1, 2009, our non-employee directors receive the following compensation: \$60,000 cash compensation annually paid quarterly in arrears to the Chairman of the board and \$40,000 cash compensation annually paid quarterly in arrears to all other non-employee directors. Effective September 1, 2010, the Chairman will received \$68,000 annually and \$48,000 for all other non-employee directors. No cash compensation is paid to our Chief Executive Officer for his services as a member of our board of directors. No formal plan exists regarding non-cash compensation to our non-employee directors at this time, but it is anticipated that a plan will be implemented over the next 12 months.

Upon joining RPC's board of directors on May 26, 2006, Mr. Anderson and Mr. Sager were granted stock options to purchase 116,562 shares and 233,124 shares, respectively, of our common stock at respective exercise prices of \$2.57 per share. Such stock options vested 6/36ths on the six month anniversary of such grant and 1/36th per month thereafter and expire ten years from grant date. Upon joining the board of directors of RPC on July 10, 2008, Dr. Franklin was granted stock options to purchase 34,969 shares of our common stock at an exercise price of \$2.23 per share, which vests 6/48ths on the six-month anniversary of such grant and 1/48th per month thereafter and expires ten years from grant date.

In addition, at the discretion of the stock option committee of RPC's board of directors, each non-employee director of RPC was entitled to receive options to purchase 23,313 shares of our common stock for each subsequent year of service on the company's board of directors. Such options were generally granted at fair market value one day

preceding the grant date, vest 6/48ths on the six month anniversary of the grant date and 1/48th per month thereafter and expire ten years from grant date. RPC made these grants to Mr. Anderson and Mr. Sager with respect to its fiscal year ended August 31, 2007, on June 14, 2007 at a per share exercise price of \$2.57. No such annual grants were approved for the fiscal year ended August 31, 2010 or the fiscal year ended August 31, 2009. Dr. Keltner was appointed to our board of directors immediately following the 2009 Merger on September 30, 2009 and was granted stock options to purchase up to 34,968 shares of our common stock at an exercise price of \$3.30 per share, which vests 6/48ths on March 30, 2010 and 1/48th per month thereafter, with an expiry of ten years. Dr. Keltner's annual compensation for his services as a director was \$40,000. Dr. Starr, who is our employee, did not receive additional compensation for his service as a director. On March 9, 2010, non-employee directors were granted options to purchase up to 15,000 shares of our common stock at an exercise price of \$2.02 per share for their services for the fiscal year ended August 31, 2010. Such options vest commencing on September 1, 2009 over four years, with an expiry of ten years from the date of grant. The following table sets forth the total compensation paid by us to each of our non-employee directors during our fiscal year ended August 31, 2010.

| Name | Fees Earned or Paid in Cash (\$) | Option Awards\$(1) | Total(\$) |
|--|-------------------------------------|-----------------------|-----------|
| Raymond W. Anderson (2) | 40,000 | 13,331 | 53,331 |
| Erich Sager (3) | 60,000 | 13,331 | 73,331 |
| Richard L. Franklin, M.D. Ph.D. (4) | 40,000 | 17,584 | 57,584 |
| Llew Keltner, M.D., Ph.D. (5) | 30,000 | 24,227 | 54,227 |

(1) Amounts shown do not reflect compensation actually received by a director, but reflect the dollar amount compensation cost recognized by us for financial statement reporting purposes (disregarding an estimate of forfeitures related to service-based vesting conditions) for the fiscal year ended August 31, 2010, in accordance with Financial Accounting Standards Board Accounting Standards Codification Topic 718, Compensation—Stock Compensation, herein referred to as ASC Topic 718, and thus may include amounts from awards granted in and prior to the fiscal year ended August 31, 2010. The assumptions underlying the calculations pursuant to ASC Topic 718 are set forth under Note 8 of the Notes to Consolidated Financial Statements, beginning on page F-23 of our Consolidated Financial Statements.

- (2) Mr. Anderson had 154,875 options outstanding as of August 31, 2010, of which 138,456 were exercisable.
(3) Mr. Sager had 271,437 options outstanding as of August 31, 2010, of which 255,018 were exercisable.
(4) Dr. Franklin had 48,969 options outstanding as of August 31, 2010, of which 21,651 were exercisable.
(5) Dr. Keltner had 49,968 options outstanding as of August 31, 2010, of which 11,452 were exercisable.

On October 12, 2010, each non-employee director was granted options to purchase up to 30,000 shares of our common stock at an exercise price of \$2.97 per share for his services as a director for the fiscal year ending August 31, 2011. Such options commenced vesting on September 1, 2010, and vests 6/48ths on March 1, 2011 and 1/48th per month thereafter and expire 10 years from the grant date.

Defined Contribution Plan

We maintain a qualified retirement plan pursuant to Code Sections 401(a) and 401(k) covering substantially all employees, subject to certain minimum age and service requirements, herein referred to as our 401(k) Plan. Our 401(k) Plan allows such employees to make voluntary contributions. The assets of the 401(k) plan are held in trust for participants and generally are distributable upon the retirement, disability, death or other termination of employment of the participant.

Employees who participate in our 401(k) Plan may contribute to their 401(k) account up to the maximum amount that varies annually in accordance with the Code. We also make available to 401(k) plan participants the ability to direct the investment of their 401(k) accounts in a well-balanced spectrum of various investment funds.

At our discretion, we provide for a 401(k) matching in the amount of 100% of the first 3% of employee deferral and 50% of the next 2% of employee deferral, in compliance with the Internal Revenue Service's Safe Harbor rules. As of March 28, 2009, in order to preserve cash, we discontinued 401(k) matching for all of our employees. In October 2010, we re-implemented our 401(k) matching program for all employees.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED
STOCKHOLDER MATTERS

The following table sets forth, as of November 5, 2010, each beneficial owner (or group of affiliated beneficial owners) of more than five percent (5%) of any class of voting securities of Raptor Pharmaceutical Corp., each of our named executive officers as of the end of the fiscal year ended August 31, 2010, each of our directors and all of our executive officers and directors as a group. Except as otherwise indicated, each listed stockholder directly owned his or her shares and had sole voting and investment power. Unless otherwise noted, the address for each person listed below is Raptor Pharmaceutical Corp., 9 Commercial Blvd., Suite 200, Novato, CA 94949.

| Name of Beneficial Owner and Address | Number of Shares Of Common Stock Beneficially | Number of Shares Subject to Options/ Options and Warrants (1) | Percentage of Outstanding Shares of Common Stock (2) |
|--|---|--|--|
| | Owned | | |
| Entities affiliated with Deerfield Management Company, LP (3) | 3,085,514 | 1,951,220 | 9.6% |
| Entities affiliated with Ayer Capital Management, LP (4) Aran Asset Management SA (5) | 2,977,429 | 1,172,760 | 9.5% |
| Entities affiliated with Straus Capital Management LLC. (6) Christopher M. Starr, Ph.D. (7) | 2,200,491 | 1,156,399 | 7.0% |
| Todd C. Zankel, Ph.D. (7) | 1,648,300 | 750,000 | 5.3% |
| Erich Sager (7) | 772,264 | 72,895 | 2.5% |
| Ted Daley (7) | 763,870 | 64,501 | 2.5% |
| Kim R. Tsuchimoto (7) | 493,665 | 258,211 | 1.6% |
| Patrice P. Rioux, M.D, Ph.D. (7) | 152,822 | 47,918 | * |
| Raymond W. Anderson (7) | 80,506 | 79,924 | * |
| Richard L. Franklin, M.D., Ph.D. (7) | 37,882 | 37,882 | * |
| Llew Keltner, M.D., Ph.D. (7) | 141,649 | 141,649 | * |
| All executive officers and directors as a group (8 persons) | 25,815 | 25,815 | * |
| | 15,616 | 15,616 | * |
| | 2,484,089 | 744,411 | 8.2% |

* Less than one percent.

- (1) Beneficial ownership is determined in accordance with SEC rules and generally includes voting or investment power with respect to securities. Shares of common stock subject to options, warrants and convertible preferred stock currently exercisable or convertible, or exercisable or convertible within sixty (60) days of November 5, 2010, are counted as outstanding for computing the percentage held by each person holding such options or warrants but are not counted as outstanding for computing the percentage of any other person.
- (2) Based on 30,213,378 shares outstanding as of November 5, 2010.
- (3) Includes 429,024 shares and warrants to purchase 741,464 shares held by Deerfield Special Situations Fund, LP, and 705,270 shares and warrants to purchase 1,209,756 shares held by Deerfield Special Situations Fund International, Limited. Deerfield Special Situations Fund, LP and Deerfield Special Situations Fund International, Limited, (or collectively, the “Deerfield Funds”) are affiliated with Deerfield Management Company, LP. The Deerfield Funds were issued warrants to purchase an aggregate of 1,951,220 shares of common stock in the 2010 Private Placement. However, these warrants are exercisable only to the extent that the number of shares beneficially held by the entities affiliated with Deerfield Management Company, LP does not exceed 9.999% of our outstanding stock and therefore, a portion of those warrants have not been counted as outstanding for purposes of computing the percentage held by the entities affiliated with Deerfield Capital Management, LP. The principal business address of each of the Deerfield Funds is 780 3rd Avenue, 37th Floor, New York, NY 10017.
- (4) Includes (i) 144,570 shares and warrants to purchase 117,863 shares held by Epworth-Ayer Capital, (ii) 52,722 shares and warrants to purchase 28,077 shares held by Ayer Capital Partners Krestrel Fund, LP and (iii) 1,607,377 shares and warrants to purchase 1,026,820 shares held by Ayer Capital Partners Master Fund, LP (or collectively with Epworth-Ayer Capital and Ayer Capital Partners Krestrel Fund, LP, the “Ayer Capital Funds”). Each of the Ayer Capital Funds is affiliated with Ayer Capital Management, LP. The address for each of the Ayer Capital Funds is 230 California Street, Suite 600, San Francisco, CA 94111.
- (5) The address for this entity is Bahnhofplatz, P.O. Box 4010, 6304 Zug, Switzerland. Aran Asset Management disclaims beneficial ownership of the shares registered in its name on behalf of its clients. The Chairman and CEO of Aran Asset Management SA is Michael C. Thalmann who disclaims beneficial ownership of these shares except to the extent of his pecuniary interest therein.
- (6) Includes (i) 464,060 shares and warrants to purchase 403,060 shares held by Straus Partners, L.P. and (ii) 434,240 shares and warrants to purchase 346,820 shares held by Straus Healthcare Partners, L.P (or collectively with Straus Partners, L.P., the “Straus Funds”). Each of the Straus Funds is affiliated with Straus Capital Management, L.L.C. The address for each of the Straus Funds is 767 Third Avenue, 21st Floor, New York, NY 10017.
- (7) On November 22, 2010, our board of directors approved the issuance of and awarded options to purchase an aggregate of 1,207,122 shares of our common stock to all of our employees and directors. 25% of the shares subject to each option were vested immediately upon issuance, with the remaining 75% vesting monthly pro rata over a 36 month period commencing on December 22, 2010. The following persons listed in this table were issued

options to purchase shares of Common Stock on November 22, 2010: Christopher M. Starr, Ph.D. was issued an option to purchase 345,054 shares; Todd C. Zankel, Ph.D. was issued an option to purchase 87,345 shares; Kim R. Tsuchimoto, Ted Daley and Patrice P. Rioux, M.D., Ph.D. were each issued an option to purchase 113,616 shares; and Erich Sager, Raymond W. Anderson, Richard L. Franklin, M.D., Ph.D. and Llew Keltner, M.D., Ph.D. were each issued an option to purchase 90,000 shares. The numbers in the “Number of Shares Subject to Options/Options and Warrants” column are as of November 5, 2010 and do not include these options. If the information in the table was as of November 22, 2010, the “Number of Shares Subject to Options/Options and Warrants” column would also include the vested portion of the options (25% of the shares under each option grant), plus any portion of each option that will vest within 60 days thereof (the portion that will vest on December 22, 2010), or the following additional number of shares with respect to each person: 93,451 shares for Christopher M. Starr, Ph.D.; 23,655 shares for Todd C. Zankel, Ph.D.; 30,771 shares for each of Kim R. Tsuchimoto, Ted Daley and Patrice P. Rioux, M.D., Ph.D.; and 24,375 shares for each of Erich Sager, Raymond W. Anderson, Richard L. Franklin, M.D., Ph.D. and Llew Keltner, M.D., Ph.D.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Review, Approval or Ratification of Transactions with Related Persons

Since September 1, 2009, there has not been nor is there currently proposed any transaction or series of similar transactions to which we were or are to be a party in which the amount involved exceeds \$120,000 and in which any of our directors, executive officers, persons who we know hold more than 5% of our common stock, or any member of the immediate family of any of the foregoing persons had or will have a direct or indirect material interest other than: (i) compensation agreements and other arrangements, which are described elsewhere in this prospectus, and (ii) the transactions described below.

We have entered into indemnity agreements with certain of our officers and directors which provide, among other things, that we will indemnify such officer or director, under the circumstances and to the extent provided for therein, for expenses, damages, judgments, fines and settlements he or she may be required to pay in actions or proceedings which he or she is or may be made a party by reason of his or her position as a director, officer or other agent of us, and otherwise to the fullest extent permitted under Delaware law and our Bylaws.

Pursuant to the terms of an asset purchase agreement, we and our wholly-owned subsidiary, Raptor Therapeutics Inc. purchased certain assets of Convivia, Inc., which was as of such time wholly-owned by Ted Daley (currently the President of Raptor Therapeutics Inc.). To date, in aggregate Mr. Daley has received 104,904 shares of our common stock and \$90,000 in cash bonuses and may receive additional common stock and cash bonuses based on the successful development of our ConviviaTM development program. Mr. Daley was hired to develop the ConviviaTM product candidate along with other clinical-stage programs at Raptor Therapeutics Inc.

In the ordinary course of business, our officers have loaned money to us by paying travel expenses and equipment and other costs from their personal funds on our behalf. We have promptly reimbursed the officers for such expenses and costs.

Independence of Our Board of Directors

Our board of directors has determined that all current members of our board of directors are independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards), except for Dr. Starr and Mr. Sager. Our board of directors has also determined that each member of our Audit Committee, Compensation Committee and Corporate Governance and Nominating Committee is independent as defined by the SEC and NASDAQ rules.

PLAN OF DISTRIBUTION

We entered into a placement agent agreement with Ladenburg Thalmann & Co. Inc., or Ladenburg, with respect to the units offered and sold in the Direct Offering. The material terms and provisions of the placement agent agreement are summarized below. This summary is subject to and qualified in its entirety by the placement agent agreement, which was filed with the SEC on a Current Report on Form 8-K in connection with this offering and which has been incorporated by reference into this prospectus.

Subject to the terms and conditions stated in our placement agent agreement with Ladenburg, Ladenburg agreed to act, on a best efforts basis, as our placement agent in connection with the sale by us of up to 3,747,558 units in the Direct Offering. Ladenburg was the sole placement agent for the Direct Offering. Ladenburg did not purchase or sell any units pursuant to the placement agent agreement, the prospectus supplement or accompanying prospectus filed with the SEC on December 18, 2009, nor did we require that Ladenburg arrange for the purchase or sale of any minimum or specific number or dollar amount of units. Ladenburg had no authority to bind us by virtue of the placement agent agreement. Further, Ladenburg did not guarantee that it would be able to raise new capital in any prospective offering. We entered into a securities purchase agreement directly with Direct Offering Investors in connection with this offering and we only sold to investors who have entered into the securities purchase agreement. The material terms and provisions of the securities purchase agreement are summarized below. This summary is subject to and qualified in its entirety by the securities purchase agreement, which was filed with the SEC on a Current Report on Form 8-K in connection with this offering and which has been incorporated by reference into this prospectus.

Unless investors instructed us otherwise, we delivered the shares of common stock issued to the investors electronically upon receipt of investor funds for the purchase of units, and we issued the warrants in registered physical form to investors. We delivered the shares of our common stock and the Series A Warrants and Series B Warrants from the Direct Offering on December 22, 2009.

We paid the placement agent a total fee equal to 6.5% of the aggregate cash proceeds we received from the Direct Offering (excluding any proceeds from exercise of the warrants). At closing, we also reimbursed the placement agent for its out-of-pocket accountable expenses actually incurred by it in connection with this offering.

The following table summarizes the placement agent fees that we paid to the placement agent in connection with this offering.

| | |
|----------|---------|
| Per Unit | \$ 0.13 |
| Total | \$ 0.13 |

In addition, we issued compensation warrants to the placement agent to purchase shares of our common stock equal to 2.0% of the aggregate number of shares of common stock sold in this offering (not including shares of common stock issuable upon the exercise of Series A Warrants and Series B Warrants issued in this offering), which will allow them to purchase an aggregate of up to 74,951 shares of our common stock. The compensation warrants are substantially on the same terms as the warrants offered to investors hereby, except that the compensation warrants have an exercise price equal to \$2.50 (which is 125% of the public offering price per share), will expire on November 5, 2014 and will otherwise comply with the rules of the FINRA.

The total fees and expenses paid by us to Ladenburg, excluding discounts and commissions, was approximately \$487,000, which includes \$26,820 that we agreed to reimburse Ladenburg for the fees, disbursements and other expenses incurred by it.

We agreed to indemnify Ladenburg and specified other persons against some civil liabilities, including liabilities under the Securities Act or the Exchange Act, and to contribute to payments that the placement agent may be required to make in respect of those liabilities.

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DESCRIPTION OF SECURITIES

Common Stock

Dividend Rights

Dividends from our capital stock, subject to the provisions of our certificate of incorporation, as amended, and applicable law, if any, may be declared by our board of directors pursuant to law at any regular or annual meeting. Dividends may be paid in cash, in property, or in shares of the capital stock, subject to the provisions of the certificate of incorporation, as amended, and applicable law.

Voting Rights

For the purpose of determining those stockholders entitled to vote at any meeting of our stockholders, except as otherwise provided by law, only persons in whose names stand on the stock records of the corporation on the record date, as provided in Section 12 of our bylaws, as amended, shall be entitled to vote at any meeting of stockholders. Every person entitled to vote shall have the right to do so either in person, by remote communication, if applicable, or by an agent or agents authorized by a proxy granted in accordance with Delaware law. An agent so appointed need not be a stockholder. No proxy shall be voted after three (3) years from its date of creation unless the proxy provides for a longer period. Each share of our common stock has identical rights and privileges in every respect.

Our bylaws, as amended, provide that holders of shares of our common stock have the power to adopt, amend or repeal the bylaws of the corporation; provided, that in addition to any vote of the holders of any class or series of stock of the corporation required by law or by our certificate of incorporation, as amended, such action by stockholders shall require the affirmative vote of the holders of at least 66-2/3% of the voting power of all of the then-outstanding shares of our capital stock entitled to vote generally in the election of directors, voting together as a single class. In addition, our certificate of incorporation, as amended, and bylaws, as amended, provide that a director may be removed at any time without cause by the affirmative vote of the holders of 66-2/3% of all of our then-outstanding shares of voting stock entitled to vote at an election of directors.

No Preemptive or Similar Rights

Our common stock is not entitled to preemptive rights and is not subject to conversion or redemption.

Right to Receive Liquidation Distributions

If we voluntarily or involuntarily liquidate, dissolve or wind-up, the holders of our common stock will be entitled to receive after distribution in full of the preferential amounts, if any, to be distributed to the holders of preferred stock or any series of preferred stock, all of the remaining assets available for distribution ratably in proportion to the number of shares of our common stock held by them. Holders of our common stock have no preferences or any preemptive conversion or exchange rights. Our outstanding common stock is fully paid and non-assessable. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of our preferred stock, which our board of directors may designate and issue in the future.

Anti-Takeover Provisions

Under the provisions of the General Corporation Law of the State of Delaware, or the DGCL, our certificate of incorporation, as amended, and bylaws, as amended, may have the effect of delaying, deferring, or discouraging another person from acquiring control of us. Such provisions could limit the price that some investors might be willing to pay in the future for our common stock. These provisions of the DGCL and our certificate of incorporation, as amended, and bylaws, as amended, may also have the effect of discouraging or preventing certain types of transactions involving an actual or threatened change of control of us, including unsolicited takeover attempts, even though such a transaction may offer our stockholders the opportunity to sell their stock at a price above the prevailing market price.

We are subject to Section 203 of the DGCL, which, subject to certain exceptions, prohibits a Delaware corporation from engaging in any “business combination” with an “interested stockholder” for a period of three years following the time that such stockholder became an interested stockholder, unless:

- the board of directors of the corporation approves either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder, prior to the time the interested stockholder attained that status;
- upon the closing of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding those shares owned (a) by persons who are directors or officers and (b) by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- at or subsequent to such time, the business combination is approved by the board of directors and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

With certain exceptions, an “interested stockholder” is a person or group who or which owns 15% or more of the corporation’s outstanding voting stock (including any rights to acquire stock pursuant to an option, warrant, agreement, arrangement or understanding, or upon the exercise of conversion or exchange rights, and stock with respect to which the person has voting rights only), or is an affiliate or associate of the corporation and was the owner of 15% or more of such voting stock at any time within the previous three years.

In general, Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

A Delaware corporation may “opt out” of this provision with an express provision in its original certificate of incorporation or an express provision in its amended and restated certificate of incorporation or bylaws resulting from a stockholders’ amendment approved by at least a majority of the outstanding voting shares. However, we have not “opted out” of this provision. Section 203 could prohibit or delay mergers or other takeover or change-in-control attempts and, accordingly, may discourage attempts to acquire us.

Our certificate of incorporation, as amended, and bylaws, as amended, provide that its board will have one class of directors serving concurrent, one-year terms. Subject to the rights of the holders of any outstanding series of our preferred stock, our certificate of incorporation, as amended, authorizes only our board of directors to fill vacancies, including newly created directorships. Accordingly, this provision could prevent a stockholder from obtaining majority representation on the board of directors by enlarging the board of directors and filling the new directorships

with its own nominees.

Our certificate of incorporation, as amended, also provides that directors may be removed by stockholders for cause by the affirmative vote of the holders of a majority of the outstanding shares of voting stock or without cause by the affirmative vote of the holders of 66-2/3% of the outstanding shares of voting stock.

Our certificate of incorporation, as amended, also provides that stockholders may not take action by written consent, but may only take action at duly called annual or special meetings of stockholders. Our certificate of incorporation, as amended, further provides that special meetings of our stockholders may be called only by the chairman of the board of directors, the chief executive officer or a majority of the board of directors. This limitation on the right of stockholders to call a special meeting could make it more difficult for stockholders to initiate actions that are opposed by our board of directors. These actions could include the removal of an incumbent director or the election of a stockholder nominee as a director. They could also include the implementation of a rule requiring stockholder ratification of specific defensive strategies that have been adopted by our board of

directors with respect to unsolicited takeover bids. In addition, the limited ability of our stockholders to call a special meeting of stockholders may make it more difficult to change the existing board and management.

Our bylaws, as amended, provide that stockholders seeking to bring business before an annual meeting of stockholders, or to nominate candidates for election as directors at an annual meeting of stockholders, must provide timely notice thereof in writing. To be timely, a stockholder's notice must be delivered to or mailed and received at our principal executive offices not less than 120 days prior to the date of our annual meeting. Our bylaws, as amended, also specify certain requirements as to the form and content of a stockholder's notice. These provisions may preclude stockholders from bringing matters before an annual meeting of stockholders or from making nominations for directors at an annual meeting of stockholders.

The authorized but unissued shares of our common stock and preferred stock are available for future issuance without stockholder approval. These additional shares may be utilized for a variety of corporate purposes, including future public offerings to raise additional capital, corporate acquisitions, employee benefit plans and "poison pill" rights plans. This could result in our management being able to issue more shares without further stockholder approval and could render more difficult or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

Transfer Agent

The transfer agent for our common stock is American Stock Transfer & Trust Company.

Listing

Our common stock is listed on the NASDAQ Capital Market under the symbol "RPTP."

Preferred Stock

Our board of directors is authorized to provide for the issuance of shares of preferred stock in one or more series, and to fix for each series voting rights, if any, designations, preferences and relative, participating, optional or other special rights and such qualifications, limitations or restrictions as provided in a resolution or resolutions adopted by our board of directors. Our board of directors has authorized the issuance of Series A participating preferred stock which includes terms and conditions which could discourage a takeover or other transaction that holders of some or a majority of common stock might believe to be in their best interests. In addition, our board of directors may authorize the issuance of preferred stock in which holders of preferred stock might receive a premium for their shares over the then market price. We have no present plans to issue any shares of preferred stock.

Series A Participating Preferred Stock

Each outstanding share of our common stock has attached to it one preferred share purchase right that entitles the registered holder to purchase from us a unit of one one-thousandth of a share of its Series A participating preferred stock, which is referred to herein as the Junior Preferred Stock, at a price of \$15.00 per unit. The description and terms of the rights are set forth in a rights agreement dated as of May 13, 2005, as amended, by and between American Stock Transfer & Trust Company, as rights agent, and us, which is referred to herein as the Raptor Rights Agreement.

Subject to certain exceptions, until the earlier to occur of (i) the close of business on the tenth day after a public announcement that a person or group of affiliated or associated persons has acquired beneficial ownership of 15% or more of our outstanding common stock, subject to certain exceptions, or (ii) 10 business days (or such later date as may be determined by action of our board of directors prior to such time as any person becomes an acquiring person) following the commencement of, or announcement of an intention to make, a tender offer or exchange offer the consummation of which would result in the beneficial ownership by a person or group of 15% or more of such outstanding common stock (the earlier of such dates is the distribution date), the rights will be evidenced by our common stock certificates.

The Raptor Rights Agreement provides that, until the distribution date, the rights will be transferred with and only with our common stock. Until the distribution date (or earlier redemption or expiration of the rights), our common stock certificates, upon transfer or new issuance of common stock will contain a notation incorporating the Raptor Rights Agreement by reference.

Until the distribution date (or earlier redemption or expiration of the rights), the surrender for transfer of any certificates of our common stock will also constitute the transfer of the rights associated with the common stock represented by such certificate. As soon as practicable following the distribution date, if any, separate certificates evidencing the rights will be mailed to holders of record of our common stock as of the close of business on the distribution date and such separate rights certificates alone will evidence the rights.

The rights are not exercisable until the distribution date. The rights will expire at the close of business on May 15, 2015 unless that final expiration date is extended or unless the rights are earlier redeemed or exchanged by us, in each case as described below.

The purchase price payable, and the number of units of Junior Preferred Stock or other securities or property issuable, upon exercise of the rights are subject to adjustment from time to time to prevent dilution (a) in the event of a stock dividend on, or a subdivision, combination or reclassification of, the Junior Preferred Stock, (b) upon the grant to holders of the units of Junior Preferred Stock of certain rights or warrants to subscribe for or purchase units of Junior Preferred Stock at a price, or securities convertible into units of Junior Preferred Stock with a conversion price, less than the then current market price of the units of Junior Preferred Stock, or (c) upon the distribution to holders of the units of Junior Preferred Stock of evidences of indebtedness or assets (excluding regular periodic cash dividends paid out of earnings or retained earnings or dividends payable in units of Junior Preferred Stock) or of subscription rights or warrants other than those referred to above.

The number of outstanding rights and the number of units of Junior Preferred Stock issuable upon exercise of each right are also subject to adjustment in the event of a stock split of our common stock or a stock dividend on the common stock payable in common stock or subdivisions, consolidations or combinations of the common stock occurring, in any such case, prior to the distribution date.

The Junior Preferred Stock purchasable upon exercise of the rights will not be redeemable. Each share of Junior Preferred Stock will be entitled to an aggregate dividend of 1,000 times the dividend declared per share of our common stock. In the event of liquidation, the holders of the shares of Junior Preferred Stock will be entitled to an aggregate payment of 1,000 times the payment made per share of our common stock. Each share of Junior Preferred Stock will have 1,000 votes, voting together with our common stock. Finally, in the event of any merger, consolidation or other transaction in which shares of our common stock are exchanged, each share of Junior Preferred Stock will be exchanged or changed in an amount per share equal to 1,000 times the amount received per share of common stock. These rights are protected by customary anti-dilution provisions.

Because of the nature of the dividend, liquidation and voting rights, the value of each unit of Junior Preferred Stock purchasable upon exercise of each right should approximate the value of one share of common stock.

If, after the rights become exercisable, we are acquired in a merger or other business combination transaction with an acquiring person or one of its affiliates, or 50% or more of our consolidated assets or earning power are sold to an acquiring person or one of its affiliates, proper provision will be made so that each holder of a right will thereafter have the right to receive, upon exercise thereof at the then current exercise price of the right, that number of shares of common stock of the acquiring company which at the time of such transaction will have a market value of two times

the exercise price of the right.

If any person or group of affiliated or associated persons becomes the beneficial owner of 15% or more of the outstanding shares of our common stock, subject to certain exceptions, proper provision will be made so that each holder of a right, other than rights beneficially owned by the acquiring person (which will thereafter be unexercisable), will have the right to receive upon exercise that number of shares of our common stock or units of Junior Preferred Stock (or cash, other securities or property) having a market value of two times the exercise price of the right.

At any time after the acquisition by a person or group of affiliated or associated persons of beneficial ownership of 15% or more of the outstanding shares of our common stock, subject to certain exceptions, and prior to the acquisition by such person or group of 50% or more of the outstanding common stock, our board of directors may exchange the rights (other than rights owned by such person or group which have become void), in whole or in part, at an exchange ratio per unit of Junior Preferred Stock equal to the purchase price divided by the then current market price per unit of Junior Preferred Stock on the earlier of (i) the date on which any person becomes an acquiring person and (ii) the date on which a tender or exchange offer is announced which, if consummated would result in the offerer being the beneficial owner of 15% or more of the shares of our common stock then outstanding.

With certain exceptions, no adjustment in the purchase price will be required until cumulative adjustments require an adjustment of at least 1% in the purchase price. No fractional shares of Junior Preferred Stock will be issued (other than fractions which are integral multiples of one one-thousandth of a share of Junior Preferred Stock, which may, at our election, be evidenced by depositary receipts) and, in lieu thereof, an adjustment in cash will be made based on the market price of the units of Junior Preferred Stock on the last trading day prior to the date of exercise.

At any time on or prior to the earlier of (i) the close of business on the tenth day after a public announcement that a person or group of affiliated or associated persons acquires beneficial ownership of 15% or more of the outstanding our common stock (unless the board of directors extends the ten day period) or (ii) the tenth business day after a person commences, or announces its intention to commence, a tender offer or exchange offer that would result in the bidder's beneficial ownership of 15% or more of the shares of our common stock, our board of directors may redeem the rights in whole, but not in part, at a price of \$0.01 per right. The redemption of the rights may be made effective at such time, on such basis and with such conditions as our board of directors in its sole discretion may establish. Immediately upon any redemption of the rights, the right to exercise the rights will terminate and the only right of the holders of rights will receive the redemption price. The rights are also redeemable under other circumstances as specified in the Raptor Rights Agreement.

The terms of the rights may be amended by our board of directors without the consent of the holders of the rights except that from and after such time that there is an acquiring person no amendment may adversely affect the interests of the holders of the rights.

Until a right is exercised, the holder of a right will have no rights by virtue of ownership as our stockholder, other than those accruing as a result of the holder's ownership in our common stock, including, without limitation, the right to vote or to receive dividends.

The rights have certain anti-takeover effects. The rights will cause substantial dilution to a person or group that attempts to acquire us on terms not approved by our board of directors, except pursuant to an offer conditioned on a substantial number of rights being acquired. The rights should not interfere with any merger or other business combination approved by our board of directors since the rights may be redeemed by us at the redemption price prior to the occurrence of a distribution date. The foregoing description of the rights is qualified in its entirety by reference to the Raptor Rights Agreement.

DESCRIPTION OF WARRANTS

The material terms and provisions of the Series A Warrants and the Series B Warrants sold in the Direct Offering are summarized below. This summary is subject to and qualified in its entirety by the form of warrant, which was filed on a Current Report on Form 8-K.

The Series A Warrants issued to each investor represent the right to purchase up to in the aggregate 50% of the shares of common stock purchased by such investor at an initial exercise price of \$2.45 per share, subject to anti-dilution adjustments described below. The Series B Warrants issued to each investor represent the right to purchase up to in the aggregate 50% of the shares of common stock purchased by such investor at an initial exercise price of \$2.45 per share, subject to anti-dilution adjustments described below. Each warrant may be exercised at any time and from time to time, beginning on June 20, 2010 and, in the case of the Series A Warrants, through and including December 22,

2014, and, in the case of the Series B Warrants, through and including June 22, 2011. Except in certain circumstances noted below, the exercise price must be paid in cash at the time of exercise.

Exercise

Holders of the warrants may exercise their warrants to purchase shares of our common stock on or before the termination date by delivering (i) a notice of exercise, appropriately completed and duly signed, and (ii) payment of the exercise price for the number of shares with respect to which the warrant is being exercised, by wire transfer of immediately available funds to us, except if such holder is permitted to and in fact utilizes the cashless exercise provisions with respect to the warrants. Warrants may be exercised in whole or in part, but only for full shares of common stock. Any portion of a warrant not exercised prior to the termination date shall automatically become void and of no value and shall be terminated on the termination date. We provide certain buy-in rights to a holder if we fail to deliver the shares of common stock underlying the warrants by the third trading day after the date on which delivery of the stock certificate is required by the warrant. The buy-in rights apply if after the third trading day on which delivery of the stock certificate is required by the warrant, the holder is required by its broker to purchase shares of our common stock to deliver in satisfaction of a sale by the holder of the warrant shares that the holder anticipated receiving from us upon exercise of the warrant. In this event, we will:

- pay in cash to the holder the amount by which (x) the holder's total purchase price (including brokerage commissions, if any) for the shares of common stock so purchased exceeds (y) the amount obtained by multiplying (A) the number of warrant shares that the Company was required to deliver to the holder in connection with the exercise at issue times (B) the price at which the sell order giving rise to such purchase obligations was executed; and
- at the option of the Holder, either reinstate the portion of the warrant and equivalent number of warrant shares for which such exercise was not honored or deliver to the holder the number of shares of common stock that would have been issued had the Company timely complied with its exercise and delivery obligations.

In addition, the warrant holders are entitled to a "cashless exercise" option if, at time of exercise, there is no effective registration statement registering, or no current prospectus available for, the issuance of the shares of common stock underlying the warrants. This option entitles the warrant holders to elect to receive fewer shares of common stock without paying the cash exercise price. The number of shares to be issued would be determined by a formula based on the total number of shares with respect to which the warrant is being exercised, the volume weighted average of the price per share of our common stock for the trading day immediately prior to the date of exercise and the applicable exercise price of the warrants. The shares of common stock issuable on exercise of the warrants will be, when issued and paid for in accordance with the warrants, duly and validly authorized, issued and fully paid and non-assessable. We have agreed to reserve that number of shares of common stock equal to the number of shares of common stock issuable upon exercise of all warrants issued pursuant to this offering.

Fundamental Transaction

If, at any time while the warrants are outstanding, we (1) directly or indirectly, in one or more related transactions, consolidate or merge with or into another person, (2) sell, lease, license, assign, transfer, convey or otherwise dispose of all or substantially all of our assets or (3) are subject to or complete any direct or indirect, purchase offer, tender offer or exchange offer pursuant to which holders of our common stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the outstanding common stock, (4) directly or indirectly, in one or more related transactions, effect any reclassification, reorganization or recapitalization of our common stock or any compulsory share exchange pursuant to which our common stock is

effectively converted into or exchanged for other securities, cash or property, or (5) directly or indirectly engage in one or more related transactions that consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off or scheme of arrangement) with another person whereby such other person acquires more than 50% of the outstanding shares of common stock (not including any shares of common stock held by the other person or other persons making or party to, or associated or affiliated with the other Persons making or party to, such stock or share purchase agreement or other business combination), then the holder shall have the right thereafter to receive, upon exercise of the warrant, the same amount and kind of securities, cash or property as it would have been entitled to receive upon the occurrence of such Fundamental Transaction if it had been, immediately prior to such Fundamental Transaction, the holder of the number of warrant shares then issuable upon exercise of the warrant, and any additional consideration payable as part of the Fundamental Transaction. Any successor to us or surviving entity shall assume the obligations under the warrant.

In the event of certain Fundamental Transactions, the holders of the warrants will be entitled to receive, in lieu of our common stock and at the holders' option, cash in an amount equal to the value of the remaining unexercised portion of the warrant on the date of the transaction determined using Black-Scholes option pricing model obtained from the "OV" function on Bloomberg, L.P. with an expected volatility equal to the greater of 100% and the 100 day volatility obtained from the HVT by Bloomberg L.P. as of the trading day immediately following the public announcement of the transaction.

Subsequent Rights Offerings

If, at any time while the warrants are outstanding, we issue rights, options or warrants to all holders of our common stock entitling them to purchase our common stock at a price per share less than the volume weighted average price on the record date for such issuance of such rights, options or warrants, then the exercise price will adjust pursuant to a volume weighted average price based ratio.

Pro Rata Distributions

If, at any time while the warrants are outstanding, we distribute evidences of our indebtedness, assets, or rights or warrants to purchase any security for no consideration to all holders of our common stock, then the exercise price will adjust pursuant to a volume weighted average price based ratio.

Certain Other Adjustments

The exercise price and the number of shares of common stock purchasable upon the exercise of the warrants are subject to adjustment upon the occurrence of specific events, including stock dividends, stock splits and combinations of our common stock.

Delivery of Certificates

Upon the holder's exercise of a warrant in accordance with its terms, we will promptly, but in no event later than three trading days after the exercise date, or the Warrant Share Delivery Date, issue and deliver, or cause to be issued and delivered, a certificate for the shares of common stock issuable upon exercise of the warrant. If the warrant shares can be issued without restrictive legends and if the holder provides the necessary information to us, we will use commercially reasonable efforts to deliver the shares electronically through The Depository Trust and Clearing Corporation or another established clearing corporation performing similar functions. If we fail to deliver certificates evidencing the warrant shares by the Warrant Share Delivery Date, we may be required to comply with the buy-in provisions as described above under the heading, "Exercise."

Notice of Corporate Action

We will provide notice to holders of the warrants to provide them with the opportunity to exercise their warrants and hold common stock in order to participate in or vote on the following corporate events:

- declarations of any dividend or any other distribution of cash, securities or other property in respect of our common stock, including without limitation any granting of rights or warrants to subscribe for or purchase any of our capital stock;
- solicitation of stockholder approval for any Fundamental Transaction; or
- a voluntary dissolution, liquidation or winding up of our company.

Limitations on Exercise

The number of warrant shares that may be acquired by any holder upon any exercise of the warrant shall be limited to the extent necessary to insure that, following such exercise (or other issuance), the total number of shares of common stock then beneficially owned by such holder and its affiliates and any other persons whose beneficial ownership of common stock would be aggregated with the holder's for purposes of Section 13(d) of the Exchange Act, as amended, does not exceed 4.99% of the total number of issued and outstanding shares of our common stock (including for such purpose the shares of common stock issuable upon such exercise), or beneficial ownership limitation. The holder may elect to change this beneficial ownership limitation from 4.99% to 9.9% of the total number of issued and outstanding shares of our common stock (including for such purpose the shares of common stock issuable upon such exercise) upon 61 days' prior written notice to us.

Additional Provisions

The above summary of certain terms and provisions of the warrants is qualified in its entirety by reference to the detailed provisions of the warrants, the form of which was filed as an exhibit to a current report on Form 8-K that is incorporated herein by reference. We are not required to issue fractional shares upon the exercise of the warrants. No holders of the warrants will possess any rights as a stockholder under those warrants until the holder exercises those warrants. The warrants may be transferred independent of the common stock they were issued with, on a form of assignment, subject to all applicable laws.

THE TRANSACTION

On December 17, 2009, we entered into a Placement Agent Agreement, or the Placement Agreement, with Ladenburg as placement agent, dated as of December 17, 2009, relating to the issuance and sale to the Direct Offering Investors pursuant to the Direct Offering of up to 3,747,558 units, or the Direct Offering Units, consisting of (i) 3,747,558 shares of our common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), or the Series A Warrants, and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants) or, the Series B Warrants.

Ladenburg, acting on a best efforts basis, for the Direct Offering received a placement fee equal to 6.5% of the gross cash proceeds we received from the Direct Offering (excluding any consideration that may be paid in the future upon exercise of the Series A Warrants and Series B Warrants), a warrant to purchase up to an aggregate of 74,951 shares of our common stock at \$2.50 per share and \$26,820 in out-of-pocket accountable expenses. The warrant issued to Ladenburg has the same terms and conditions as the Series A Warrants and Series B Warrants except that the exercise price is \$2.50 per share and the expiration date is November 5, 2014. Ladenburg had no commitment to purchase any of the Direct Offering Units and was acting only as an agent in obtaining indications of interest for the Direct Offering Units from the Direct Offering Investors who purchased the Direct Offering Units directly from us. Ladenburg required us to indemnify it and certain of its affiliates against certain liabilities, including liabilities under the Securities Act, and the Securities Exchange Act of 1934, as amended, or to contribute to payments Ladenburg may be required to make because of any of such liabilities.

In connection with the Direct Offering, following execution of the Placement Agreement, we also entered into a definitive securities purchase agreement, or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 Direct Offering Investors with respect to the Direct Offering, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Direct Offering Units for a negotiated purchase price of \$2.00 per Direct Offering Unit. Each Unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. The Series A Warrants are exercisable during the period beginning on June 20, 2010 and ending on December 22, 2014. The Series B Warrants are exercisable during the period beginning on June 20, 2010 and ending on June 22, 2011. The Series A Warrants and Series B Warrants have a per share exercise price of \$2.45.

The closing of the Direct Offering occurred on December 22, 2009. The aggregate purchase price for the Direct Offering Units was \$7,495,116. Net proceeds from the Direct Offering were approximately \$6.9 million after deducting placement agent fees and other offering expenses payable by us.

The Direct Offering Units were registered under, and we made the offer and sale of the Direct Offering Units pursuant to, a shelf registration statement on Form S-3 (File No. 333-162374) which was declared effective by the Commission on November 5, 2009 and a prospectus supplement, describing the terms of the Direct Offering, which was delivered to the Direct Offering investors and filed with the Commission on December 18, 2009. Such registration statement is being amended by the amendment to the registration statement of which this prospectus forms a part.

LEGAL MATTERS

Paul, Hastings, Janofsky & Walker LLP, Los Angeles, California will pass upon the validity of the securities being offered by this prospectus. Any underwriter, dealer or agent may be advised about issues relating to any offering by its own legal counsel.

EXPERTS

Burr Pilger Mayer, Inc., independent registered public accounting firm, has audited our financial statements included in our Annual Report on Form 10-K for the year ended August 31, 2010, as set forth in its report (which contains an explanatory paragraph describing conditions that raise substantial doubt about our ability to continue as a going concern as described in Note 2 to the consolidated financial statements), which is included in this prospectus and elsewhere in the registration statement of Raptor Pharmaceutical Corp. Such consolidated financial statements of Raptor Pharmaceuticals Corp. are incorporated by reference in reliance on Burr Pilger Mayer, Inc.'s report, given on the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any reports, statements or other information that we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549 on official business days during the hours of 10AM to 3PM. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room. Our SEC filings are also available to the public from commercial document retrieval services and on the website maintained by the SEC at <http://www.sec.gov>. Reports, proxy statements and other information concerning us also may be inspected at the offices of the Financial Industry Regulatory Authority, Inc., Listing Section, 1735 K Street, Washington, D.C. 20006. You may also obtain free copies of the documents that we file with the SEC by going to the Investors and Media section of our website, www.raptorpharma.com. The information provided on our website is not part of this prospectus, and therefore is not incorporated by reference.

We have filed with the SEC a registration statement on Form S-1 relating to the securities covered by this prospectus. This prospectus is a part of the registration statement and does not contain all the information in the registration statement. Whenever a reference is made in this prospectus to a contract or other document, the reference is only a summary and you should refer to the exhibits that are a part of the registration statement for a copy of the contract or other document. You may review a copy of the registration statement at the SEC's Public Reference Room in Washington, D.C., as well as through the SEC's internet website.

The SEC allows us to "incorporate by reference" the information we file with it, which means that we can disclose important information to you by referring you to another document that we have filed separately with the SEC. You should read the information incorporated by reference because it is an important part of this prospectus. Any information incorporated by reference into this prospectus is considered to be part of this prospectus from the date we file that document. We incorporate by reference the following information or documents that we and our wholly-owned subsidiary, Raptor Pharmaceuticals Corp., have filed with the SEC (Commission File Nos. 000-25571 and 000-50720, respectively) which shall not include, in each case, documents, or information deemed to have been

furnished and not filed in accordance with SEC rules:

- Our Annual Report on Form 10-K for the fiscal year ended August 31, 2010 filed with the SEC on November 22, 2010;
- Our Quarterly Report on Form 10-Q for the quarter ended May 31, 2010 filed with the SEC on July 15, 2010;
- Our Quarterly Report on Form 10-Q for the quarter ended February 28, 2010 filed with the SEC on April 9, 2010;
- Our Quarterly Report on Form 10-Q for the quarter ended November 30, 2009 and Form 10-Q/A filed with the SEC on January 14, 2010 and January 15, 2010, respectively;
- Our Amended Definitive Proxy Statement on Schedule 14A filed with the SEC on February 5, 2010; and
- Our Current Reports on Form 8-K filed with the SEC on November 17, 2010, November 12, 2010, August 24, 2010, August 13, 2010, August 10, 2010, June 30, 2010, June 17, 2010, April 22, 2010, April 8, 2010, February 5, 2010 and December 24, 2009; our Current Report on Form 8-K/A filed with the SEC on December 23, 2009; our Current Reports on Form 8-K filed with the SEC on December 18, 2009, December 15, 2009 and November 17, 2009; our Current Reports on Form 8-K/A filed with the SEC on November 3, 2009, October 9, 2009, October 7, 2009; our Current Report on Form 8-K filed with the SEC on October 5, 2009; and our Current Reports on Form 8-K filed with the SEC, as filed by TorreyPines Therapeutics, Inc., on July 31, 2009, July 28, 2009, July 22, 2009, June 17, 2009, May 29, 2009, May 1, 2009, April 24, 2009, April 2, 2009, March 31, 2009, March 27, 2009 and February 9, 2009.

We will provide to each person, including any beneficial owner, to whom a prospectus is delivered, without charge upon written or oral request, a copy of any or all of the documents that are incorporated by reference into this prospectus but not delivered with the prospectus, including exhibits which are specifically incorporated by reference into such documents. If you would like to request documents from us, please send a request in writing or by telephone to us at the following address:

Raptor Pharmaceutical Corp.

9 Commercial Blvd., Suite 200

Novato, CA 94949

(415) 382-1390

Attn: Secretary

Information on Our Website

Information on any Raptor website, any subsection, page, or other subdivision of any Raptor website, or any website linked to by content on any Raptor website, is not part of this prospectus and you should not rely on that information unless that information is also in this prospectus or incorporated by reference in this prospectus.

Trademark Notice

Raptor, our logos and all of our product candidates and trade names are our registered trademarks or our trademarks in the United States and in other select countries. Other third-party logos and product/trade names are registered trademarks or trade names of their respective companies.

Financial Statements

The following consolidated financial statements of Raptor Pharmaceuticals Corp. and the Independent Registered Public Accounting Firm's Report issued thereon, are incorporated by reference in Part II, Item 8 of this prospectus:

| | Page |
|---|------|
| Report of Independent Registered Public Accounting Firm | F-1 |
| Consolidated Balance Sheets as of August 31, 2010 and 2009 | F-2 |
| Consolidated Statements of Operations for the years ended August 31, 2010 and 2009 and for the cumulative period from September 8, 2005 (inception) to August 31, 2010 | F-3 |
| Consolidated Statements of Stockholders' Equity for period from September 8, 2005 (inception) to August 31, 2006 and the years ended August 31, 2007, 2008, 2009 and 2010 | F-4 |
| Consolidated Statements of Cash Flows for the years ended August 31, 2010 and 2009 and for the cumulative period from September 8, 2005 (inception) to August 31, 2010 | F-9 |
| | F-10 |
| Notes to Consolidated Financial Statements | |

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of

Raptor Pharmaceutical Corp.

We have audited the accompanying consolidated balance sheets of Raptor Pharmaceutical Corp. and its subsidiaries (the "Company") (a development stage enterprise) as of August 31, 2010 and 2009 and the related consolidated statements of operations, stockholders' equity and cash flows for the years ended August 31, 2010 and 2009 and the cumulative amounts from September 8, 2005 (inception) to August 31, 2010. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform an audit of the Company's internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of Raptor Pharmaceutical Corp. and its subsidiaries as of August 31, 2010 and 2009 and the consolidated results of their operations and cash flows for the years ended August 31, 2010 and 2009 and the cumulative amounts from September 8, 2005 (inception) to August 31, 2010 in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the consolidated financial statements, the Company is in the development stage and has not generated any revenue to date. These factors raise substantial doubt about the Company's ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 2. The financial statements do not include any adjustments relating to the recoverability and classification of asset carrying amounts or the amount and classification of liabilities that might result should the Company be unable to continue as a going concern.

As discussed in Note 1 to the consolidated financial statements, effective September 29, 2009, the Company completed a reverse merger with TorreyPines Therapeutics, Inc. The combined company is called Raptor Pharmaceutical Corp.

/s/ Burr Pilger Mayer, Inc.

San Francisco, California

November 22, 2010

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Raptor Pharmaceutical Corp.
(A Development Stage Company)
Consolidated Balance Sheets

| | ASSETS | | August 31, | |
|--|--------|---------------|------------|--------------|
| | | 2,010 | | 2,009 |
| Current assets: | | | | |
| Cash and cash equivalents | | \$ 16,953,524 | | \$ 3,701,787 |
| Prepaid expenses and other | | 285,898 | | 107,054 |
| Total current assets | | 17,239,422 | | 3,808,841 |
| Intangible assets, net | | 3,512,542 | | 2,524,792 |
| Goodwill | | 3,275,403 | | - |
| Fixed assets, net | | 93,249 | | 144,735 |
| Deposits | | 102,906 | | 100,206 |
| Deferred offering costs | | 166,015 | | - |
| Total assets | | \$ 24,389,537 | | \$ 6,578,574 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | | | |
| Liabilities | | | | |
| Current liabilities: | | | | |
| Accounts payable | | \$ 637,321 | | \$ 613,577 |
| Accrued liabilities | | 1,129,810 | | 451,243 |
| Common stock warrant liability | | 15,780,216 | | - |
| Deferred rent | | 2,673 | | - |
| Capital lease liability – current | | 4,865 | | 4,117 |
| Total current liabilities | | 17,554,885 | | 1,068,937 |
| Capital lease liability - long-term | | 1,811 | | 6,676 |
| Total liabilities | | 17,556,696 | | 1,075,613 |
| Commitments and contingencies | | | | |
| Stockholders' equity: | | | | |
| Preferred stock, \$0.001 par value, 15,000,000 shares authorized, zero shares issued and outstanding | | - | | - |
| Common stock, \$0.001 par value, 150,000,000 shares authorized 30,076,758 and 17,857,555 shares issued and outstanding as at August 31, 2010 and 2009, respectively | | 30,077 | | 17,858 |
| Additional paid-in capital | | 47,617,449 | | 27,364,286 |
| Accumulated other comprehensive loss | | (7,854) | | - |
| Deficit accumulated during development stage | | (40,806,831) | | (21,879,183) |
| Total stockholders' equity | | 6,832,841 | | 5,502,961 |
| Total liabilities and stockholders' equity | | \$ 24,389,537 | | \$ 6,578,574 |

The accompanying notes are an integral part of these consolidated financial statements.

Raptor Pharmaceutical Corp.
(A Development Stage Company)
Consolidated Statements of Operations

| | For the year ended August 31, | | For the cumulative period from September 8, 2005 (inception) to August 31, 2010 |
|--|-------------------------------|----------------|---|
| | 2010 | 2009 | |
| Revenues: | \$ - | \$ - | \$ - |
| Operating expenses: | | | |
| General and administrative | 3,720,148 | 2,687,993 | 10,676,388 |
| Research and development | 9,334,080 | 6,570,119 | 24,208,364 |
| In-process research and dev. | | - | 240,625 |
| Total operating expenses | 13,054,228 | 9,258,112 | 35,125,377 |
| Loss from operations | (13,054,228) | (9,258,112) | (35,125,377) |
| Interest income | 25,701 | 36,744 | 327,604 |
| Interest expense | (3,950) | (2,526) | (113,887) |
| Foreign currency transaction loss | (457) | - | (457) |
| Adjustment to fair value of common stock warrants | (5,894,714) | - | (5,894,714) |
| Net loss | \$ (18,927,648) | \$ (9,223,894) | \$(40,806,831) |
| Loss per share from operations: | | | |
| Basic and diluted | \$ (0.59) | \$ (0.64) | |
| Net loss per share: | | | |
| Basic and diluted | \$ (0.85) | \$ (0.64) | |
| Weighted average shares outstanding used to compute: | | | |
| Basic and diluted | 22,227,198 | 14,440,254 | |

The accompanying notes are an integral part of these consolidated financial statements.

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Raptor Pharmaceutical Corp.

(A Development Stage Company)

Consolidated Statements of Stockholders' Equity

For the period from September 8, 2005 (inception) to August 31, 2006

| | Common stock | | Additional | Receivable | Deficit | Total |
|--|--------------|----------|--------------------|----------------------|---|-----------|
| | Shares | Amount | paid-in Capital | from stockholders | accumulated during the development stage | |
| Balance at September 8, 2005, issuance of common stock to founders at \$0.004 per share, net of retirement of common stock upon reverse merger | 1,398,740 | \$ 1,399 | \$ 8,601 | \$ (10,000) | \$ — | — |
| Common stock issued in May 2006 at \$0.43 per share pursuant to a stock purchase agreement dated February 2006 | 233,123 | 233 | 99,767 | (100,000) | — | — |
| Common stock issued in May 2006 at \$0.86 per share pursuant to a stock purchase agreement dated February 2006 | 233,123 | 233 | 199,767 | — | — | 200,000 |
| Common stock issued on May 25, 2006 at \$2.57 per share, net of fundraising costs of \$217,534 | 1,942,695 | 1,943 | 4,780,523 | — | — | 4,782,466 |
| Common stock and warrants issued for a placement fee in | 186,499 | 186 | (186) | — | — | — |

| | | | | | | |
|--|-----------|----------|--------------|---------|---------------|--------------|
| connection with May 25, 2006 financing | | | | | | |
| Common stock issued in connection with reverse merger in May 2006 | 2,914,042 | 2,914 | (2,914) | — | — | — |
| Warrant subscribed pursuant to a consulting agreement dated September 2005 | — | — | 60 | — | — | 60 |
| Consultant stock-based compensation expense | — | — | 23,500 | — | — | 23,500 |
| Repayment of receivable from stockholders | — | — | — | 110,000 | — | 110,000 |
| Net loss | — | — | — | — | (969,250) | (969,250) |
| Balance at August 31, 2006 | 6,908,222 | \$ 6,908 | \$ 5,109,118 | \$ | —\$ (969,250) | \$ 4,146,776 |

The accompanying notes are an integral part of these consolidated financial statements.

Raptor Pharmaceutical Corp.

(A Development Stage Company)

Consolidated Statements of Stockholders' Equity

For the year ended August 31, 2007

| | Common stock | | Additional | Deficit | |
|---|--------------|----------|--------------|----------------|--------------|
| | Shares | Amount | paid-in | accumulated | Total |
| | | | Capital | during the | |
| | | | | development | |
| | | | | stage | |
| Balance at September 1, 2006 | 6,908,222 | \$ 6,908 | \$ 5,109,118 | \$ (969,250) | \$ 4,146,776 |
| Exercise of common stock warrants | 765,422 | 766 | 1,969,234 | — | 1,970,000 |
| Exercise of common stock options | 3,380 | 3 | 8,697 | | 8,700 |
| Consultant stock-based compensation expense | — | — | 95,731 | — | 95,731 |
| Employee stock-based compensation expense | — | — | 368,978 | — | 368,978 |
| Net loss | — | — | — | (3,632,076) | (3,632,076) |
| Balance at August 31, 2007 | 7,677,024 | \$ 7,677 | \$ 7,551,758 | \$ (4,601,326) | \$ 2,958,109 |

The accompanying notes are an integral part of these consolidated financial statements.

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Raptor Pharmaceutical Corp.

(A Development Stage Company)

Consolidated Statements of Stockholders' Equity

For the year ended August 31, 2008

| | Common stock | | Additional | Deficit | |
|---|--------------|----------|--------------|----------------|--------------|
| | Shares | Amount | paid-in | accumulated | Total |
| | | | capital | during the | |
| | | | | development | |
| | | | | stage | |
| Balance at September 1, 2007 | 7,677,024 | \$ 7,677 | \$ 7,551,758 | \$ (4,601,326) | \$ 2,958,109 |
| Exercise of common stock warrants | 747,938 | 748 | 1,924,252 | — | 1,925,000 |
| Consultant stock-based compensation expense | 2,040 | 2 | 240,227 | — | 240,229 |
| Employee stock-based compensation expense | 23,312 | 23 | 491,532 | — | 491,555 |
| Issuance of common stock for loan placement fee | 46,625 | 47 | 101,953 | — | 102,000 |
| Issuance of common stock for the purchase of Convivia, Inc. assets | 101,992 | 102 | 240,523 | — | 240,625 |
| Issuance of common stock for the merger with Encode Pharmaceuticals, Inc. | 802,946 | 803 | 2,657,197 | — | 2,658,000 |
| Issuance of common stock and warrants for the sale of units in a private | 4,662,468 | 4,662 | 9,051,273 | — | 9,055,935 |

placement at \$2.14 per unit, including placement agent warrants, net of fundraising costs of \$944,065

| | | | | | |
|----------------------------|------------|-----------|---------------|-----------------|--------------|
| Net loss | — | — | — | (8,053,963) | (8,053,963) |
| Balance at August 31, 2008 | 14,064,345 | \$ 14,064 | \$ 22,258,715 | \$ (12,655,289) | \$ 9,617,490 |

The accompanying notes are an integral part of these consolidated financial statements.

Raptor Pharmaceutical Corp.

(A Development Stage Company)

Consolidated Statements of Stockholders' Equity

For the year ended August 31, 2009

| | Common stock Shares | Amount | Additional paid-in Capital | Deficit accumulated during the development stage | Total |
|---|------------------------|-----------|----------------------------------|--|--------------|
| Balance at August 31, 2008 | 14,064,345 | \$ 14,064 | \$ 22,258,715 | \$ (12,655,289) | \$ 9,617,490 |
| Exercise of common stock warrants | 2,031,671 | 2,032 | 2,612,468 | — | 2,614,500 |
| Consultant stock-based compensation expense | | — | 48,094 | — | 48,094 |
| Employee stock-based compensation expense | 23,312 | 23 | 354,471 | — | 354,494 |
| Issuance of common stock and warrants for the sale of units in a private placement at \$1.37 per unit, including placement agent warrants, net of fundraising costs of \$293,724 | 1,738,227 | 1,739 | 2,090,538 | — | 2,092,277 |
| Net loss | — | — | — | (9,223,894) | (9,223,894) |
| Balance at August 31, 2009 | 17,857,555 | \$ 17,858 | \$ 27,364,286 | \$ (21,879,183) | \$ 5,502,961 |

The accompanying notes are an integral part of these consolidated financial statements.

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Raptor Pharmaceutical Corp.
(A Development Stage Company)

Consolidated Statements of Stockholders' Equity
For the year ended August 31, 2010

| | Common stock | | Additional | Accumulated | Deficit | Total |
|---|--------------|-----------|--------------------|--------------------------------|---|-------------|
| | Shares | Amount | paid-in capital | other comprehensive loss | accumulated during development stage | |
| Balance at August 31, 2009 | 17,857,555 | \$ 17,858 | \$ 27,364,286 | \$ — | \$(21,879,183) | \$5,502,961 |
| Exercise of common stock warrants | 196,736 | 197 | 474,822 | — | — | 475,019 |
| Exercise of common stock options | 37,881 | 38 | 63,984 | — | — | 64,022 |
| Consultant stock-based compensation expense | — | — | 78,327 | — | — | 78,327 |
| Employee stock-based compensation expense | 11,656 | 12 | 216,719 | — | — | 216,731 |
| Common stock issued and warrants/options assumed with 2009 Merger | 940,863 | 940 | 4,416,106 | — | — | 4,417,046 |
| Issuance of common stock to LPC pursuant to an equity line facility at a \$2.26 average per share purchase price, net | 2,386,895 | 2,387 | 4,839,407 | — | — | 4,841,794 |

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of fundraising
costs and
commitment
shares totaling
\$533,294

| | | | | | | |
|---|------------|-----------|---------------|------------|-----------------|--------------|
| Issuance of common stock and warrants in a registered direct financing at \$2.00 per unit, including placement agent warrants, net of fundraising costs of \$1,246,658 | 3,747,558 | 3,748 | 6,243,062 | — | — | 6,246,810 |
| Initial value of warrants issued in a registered direct financing | — | — | (1,863,615) | — | — | (1,863,615) |
| Issuance of common stock and warrants for the sale of units in a private placement at \$3.075 per unit, including placement agent warrants, net of fundraising costs of \$1,457,687 | 4,897,614 | 4,897 | 13,597,578 | — | — | 13,602,475 |
| Initial value of warrants issued in 2010 private placement | — | — | (7,813,227) | — | — | (7,813,227) |
| Foreign currency translation loss | — | — | — | (7,854) | — | (7,854) |
| Net loss | — | — | — | — | (18,927,648) | (18,927,648) |
| Balance at August 31, 2010 | 30,076,758 | \$ 30,077 | \$ 47,617,449 | \$ (7,854) | \$ (40,806,831) | \$6,832,841 |

The accompanying notes are an integral part of these consolidated financial statements.

Raptor Pharmaceutical Corp.
(A Development Stage Company)
Consolidated Statements of Cash Flows

| | For the year ended August 31, | | For the cumulative period from September 8, 2005 (inception) to August 31, 2010 |
|---|-------------------------------|----------------|---|
| | 2010 | 2009 | |
| Cash flows from operating activities: | | | |
| Net loss | \$ (18,927,648) | \$ (9,223,894) | \$ (40,806,831) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Employee stock-based compensation expense | 216,731 | 354,494 | 1,431,758 |
| Consultant stock-based compensation expense | 78,327 | 48,094 | 485,941 |
| Fair value adjustment of common stock warrants | 5,894,714 | - | 5,894,714 |
| Amortization of intangible assets | 152,250 | 138,499 | 397,458 |
| Depreciation of fixed assets | 72,241 | 84,693 | 423,181 |
| In-process research and development | - | - | 240,625 |
| Amortization of capitalized finder's fee | - | - | 102,000 |
| Capitalized acquisition costs previously expensed | - | - | 38,000 |
| Changes in assets and liabilities: | | | |
| Prepaid expenses and other | (79,407) | 8,540 | (186,460) |
| Intangible assets | - | - | (150,000) |
| Deposits | (2,700) | - | (102,907) |
| Accounts payable | 23,744 | 47,984 | 637,321 |
| Accrued liabilities | (2,264) | 18,809 | 449,084 |
| Deferred rent | 2,673 | (2,951) | 2,568 |
| Net cash used in operating activities | (12,571,339) | (8,525,732) | (31,143,548) |
| Cash flows from investing activities: | | | |
| Purchase of fixed assets | (20,756) | (22,734) | (497,106) |
| Cash acquired in 2009 Merger | 581,391 | - | 581,391 |
| Net cash provided by (used in) investing activities | 560,635 | (22,734) | 84,285 |
| Cash flows from financing activities: | | | |
| Proceeds from the sale of common stock | 22,555,278 | 2,386,000 | 39,941,278 |
| Proceeds from the sale of common stock under an equity line | 4,899,951 | - | 4,899,951 |

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| | | | |
|---|---------------|--------------|---------------|
| Proceeds from the exercise of common stock warrants | 475,019 | 2,614,500 | 6,984,519 |
| Proceeds from the exercise of common stock options | 64,022 | - | 72,721 |
| Fundraising costs | (2,719,857) | (293,724) | (4,175,181) |
| Proceeds from the sale of common stock to initial investors | - | - | 310,000 |
| Proceeds from bridge loan | - | - | 200,000 |
| Repayment of bridge loan | - | - | (200,000) |
| Principal payments on capital lease | (4,118) | (3,435) | (12,647) |
| Net cash provided by financing activities | 25,270,295 | 4,703,341 | 48,020,641 |
| Foreign currency translation loss | (7,854) | - | (7,854) |
| Net increase (decrease) in cash and cash equivalents | 13,251,737 | (3,845,125) | 16,953,524 |
| Cash and cash equivalents, beginning of period | 3,701,787 | 7,546,912 | - |
| Cash and cash equivalents, end of period | \$ 16,953,524 | \$ 3,701,787 | \$ 16,953,524 |
| Supplemental cash flow information: | | | |
| Interest paid | \$ 3,949 | \$ 2,526 | \$ 11,886 |
| Supplemental disclosure of non-cash financing activities: | | | |
| Warrants issued in connection with financings | \$ 9,676,842 | \$ - | \$ 16,310,414 |
| Initial fair value of warrants issued to placement agents in connection with financings | \$ 208,660 | - | 208,660 |
| Common stock and warrants issued in connection with reverse merger | \$ 4,417,046 | \$ - | \$ 4,417,046 |
| Common stock issued as fee for equity line | \$ 475,137 | \$ - | \$ 475,137 |
| Acquisition of equipment in exchange for capital lease | \$ - | \$ 14,006 | \$ 21,403 |
| Notes receivable issued in exchange for common stock | \$ - | \$ - | \$ 110,000 |
| Common stock issued for a finder's fee | \$ - | \$ - | \$ 102,000 |
| Common stock issued in asset purchase | \$ - | \$ - | \$ 2,898,624 |

The accompanying notes are an integral part of these consolidated financial statements.

RAPTOR PHARMACEUTICAL CORP.
(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(1) NATURE OF OPERATIONS AND BUSINESS RISKS

The accompanying consolidated financial statements reflect the results of operations of Raptor Pharmaceutical Corp. (the “Company” or “Raptor”) and have been prepared in accordance with the accounting principles generally accepted in the United States of America. The Company’s fiscal year end is August 31.

On July 28, 2009, the Company and ECP Acquisition, Inc., a Delaware corporation, the Company’s then-wholly-owned subsidiary (“merger sub”), entered into an Agreement and Plan of Merger and Reorganization (the “2009 Merger Agreement”), with Raptor Pharmaceuticals Corp., a Delaware corporation (“RPC”). On September 29, 2009, on the terms and subject to the conditions set forth in the 2009 Merger Agreement, pursuant to a stock-for-stock reverse triangular merger (the “2009 Merger”), merger sub was merged with and into RPC and RPC survived the 2009 Merger as a wholly-owned subsidiary of the Company. Immediately prior to the 2009 Merger and in connection therewith, the Company effected a 1-for-17 reverse stock split of its common stock and changed its corporate name from “TorreyPines Therapeutics, Inc.” to “Raptor Pharmaceutical Corp.”

As a result of the 2009 Merger and in accordance with the 2009 Merger Agreement, each share of RPC’s common stock outstanding immediately prior to the effective time of the 2009 Merger was converted into the right to receive 0.2331234 shares of the Company’s common stock, on a post 1-for-17 reverse-split basis. Each option and warrant to purchase RPC’s common stock outstanding immediately prior to the effective time of the 2009 Merger was assumed by the Company at the effective time of the 2009 Merger, with each share of such common stock underlying such options and warrants being converted into the right to receive 0.2331234 shares of the Company’s common stock, on a post 1-for-17 reverse split basis, rounded down to the nearest whole share of the Company’s common stock. Following the 2009 Merger, each such option or warrant has an exercise price per share of the Company’s common stock equal to the quotient obtained by dividing the per share exercise price of such common stock subject to such option or warrant by 0.2331234, rounded up to the nearest whole cent.

Immediately following the effective time of the 2009 Merger, RPC’s stockholders (as of immediately prior to the 2009 Merger) owned approximately 95% of the Company’s outstanding common stock and the Company’s stockholders (as of immediately prior to the 2009 Merger) owned approximately 5% of the Company’s outstanding common stock.

RPC, the Company’s wholly-owned subsidiary, was the “accounting acquirer,” and for accounting purposes, the Company was deemed as having been “acquired” in the 2009 Merger. The board of directors and officers that managed and operated RPC immediately prior to the effective time of the 2009 Merger became the Company’s board of directors and officers. Additionally, following the effective time of the 2009 Merger, the business conducted by RPC immediately prior to the effective time of the 2009 Merger became primarily the business conducted by the Company.

RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The following reflects the Company's current, post-2009 Merger corporate structure (State of Incorporation):

Raptor Pharmaceutical Corp., formerly TorreyPines Therapeutics, Inc. (Delaware)

|
Raptor Pharmaceuticals Corp. (Delaware)

|
Raptor Therapeutics Inc. (Delaware) Raptor Discoveries Inc. (Delaware)
(f/k/a Bennu Pharmaceuticals Inc.) (f/k/a Raptor Pharmaceutical Inc.)
(merged with TPTX, Inc. on August 30, 2010)

Raptor is a publicly-traded biotechnology company dedicated to speeding the delivery of new treatment options to patients by enhancing existing therapeutics through the application of highly specialized drug targeting platforms and formulation expertise. The Company focuses on underserved patient populations where it can have the greatest potential impact. Raptor's clinical division advances clinical-stage product candidates towards marketing approval and commercialization. Raptor's clinical programs include DR Cysteamine for the potential treatment of nephropathic cystinosis, non-alcoholic steatohepatitis ("NASH"), and Huntington's Disease. Raptor also has two clinical stage product candidates for which it is seeking to out-license or form a development partnership: Convivia™ for the potential treatment of aldehyde dehydrogenase ("ALDH2") deficiency; and Tezampanel and NGX426, a non-opioid solution designed to treat chronic pain.

Raptor's preclinical division bioengineers novel drug candidates and drug-targeting platforms derived from the human receptor-associated protein ("RAP") and related proteins. Raptor's preclinical programs target cancer, neurodegenerative disorders and infectious diseases. HepTide™ is designed to utilize engineered RAP-based peptides conjugated to drugs to target delivery to the liver to potentially treat primary liver cancer and hepatitis. NeuroTrans™ represents engineered RAP peptides created to target receptors in the brain and are currently, in collaboration with Roche, undergoing preclinical evaluation for their ability to enhance the transport of therapeutics across the blood-brain barrier. WntTide™ is based upon Mesd and Mesd peptides that the Company is studying in a preclinical breast cancer model for WntTide™'s potential inhibition of Wnt signaling through LRP5, which may block cancers dependent on signaling through LRP5 or LRP6. Raptor is also examining Tezampanel and NGX426, for the treatment of thrombotic disorder.

The Company is subject to a number of risks, including: the need to raise capital through equity and/or debt financings; the uncertainty whether the Company's research and development efforts will result in successful commercial products; competition from larger organizations; reliance on licensing proprietary technology of others; dependence on key personnel; uncertain patent protection; and dependence on corporate partners and collaborators. See the section titled "Risk Factors" included elsewhere in this prospectus.

(2) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

(a) Basis of Presentation

The Company's consolidated financial statements include the accounts of the Company's wholly owned subsidiaries, Raptor Pharmaceuticals Corp., Raptor Discoveries Inc., and Raptor Therapeutics Inc., such subsidiaries incorporated in Delaware on May 5, 2006, September 8, 2005 (date of inception), and August 1, 2007, respectively. All inter-company accounts have been eliminated. The Company's

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RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. Through August 31, 2010, the Company had accumulated losses of approximately \$40.8 million. Management expects to incur further losses for the foreseeable future. Management believes that the Company's cash and cash equivalents at August 31, 2010 will be sufficient to meet the Company's obligations into December 2011. The Company plans to continue to review strategic partnerships, collaborations and potential equity sales as a potential means to fund its preclinical and clinical programs beyond December 2011. Until the Company can generate sufficient levels of cash from its operations, the Company expects to continue to finance future cash needs primarily through proceeds from equity or debt financings, loans and collaborative agreements with corporate partners or through a business combination with a company that has such financing in order to be able to sustain its operations until the Company can achieve profitability and positive cash flows, if ever.

On September 29, 2009, upon the closing of the merger with RPC (as discussed further in the Note 10, Issuance of Common Stock), RPC's stockholders exchanged each share of RPC's common stock into .2331234 shares of the post-merger company and the exercise prices and stock prices were divided by .2331234 to reflect the post-merger equivalent stock prices and exercise prices. Therefore, all shares of common stock and exercise prices of common stock options and warrants are reported in these consolidated financial statements on a post-merger basis.

The Company's independent registered public accounting firm has audited the Company's consolidated financial statements for the years ended August 31, 2010 and 2009. The November 22, 2010 audit opinion included a paragraph indicating substantial doubt as to the Company's ability to continue as a going concern due to the fact that the Company is in the development stage and has not generated any revenue to date.

Management plans to seek additional debt and/or equity financing for the Company through private or public offerings or through a business combination or strategic partnership, but it cannot assure that such financing or transaction will be available on acceptable terms, or at all. The uncertainty of this situation raises substantial doubt about the Company's ability to continue as a going concern. The accompanying consolidated financial statements do not include any adjustments that might result from the failure to continue as a going concern.

(b) Use of Estimates

The preparation of financial statements in conformity with United States generally accepted accounting principles requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities as of the dates of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

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RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(c) Fair Value of Financial Instruments

The carrying amounts of certain of the Company's financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due either to length of maturity or interest rates that approximate prevailing market rates unless otherwise disclosed in these consolidated financial statements.

(d) Segment Reporting

The Company has determined that it operates in two operating segments, preclinical development and clinical development. Operating segments are components of an enterprise for which separate financial information is available and are evaluated regularly by the Company in deciding how to allocate resources and in assessing performance. The Company's chief executive officer assesses the Company's performance and allocates its resources. Below is a break-down of the Company's net loss and total assets by operating segment:

| | For the years ended August 31, | | | | | |
|--------------|--------------------------------|-----------------|-----------------|----------------|----------------|----------------|
| | 2010 | | | 2009 | | |
| | Preclinical | Clinical | Total | Preclinical | Clinical | Total |
| Net loss | \$ (4,015,814) | \$ (14,911,834) | \$ (18,927,648) | \$ (2,920,598) | \$ (6,303,295) | \$ (9,223,894) |
| Total assets | 2,413,600 | 21,975,937 | 24,389,537 | 683,828 | 5,894,746 | 6,578,574 |

(e) Cash and Cash Equivalents

The Company considers all highly liquid investments with original maturities of three months or less, when purchased, to be cash equivalents. The Company maintains cash and cash equivalents, which consist principally of money market funds with high credit quality financial institutions. Such amounts exceed Federal Deposit Insurance Corporation insurance limits. The Company has not experienced any losses on these investments.

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RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(f) Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine, to the RAP technology and to the out-license and the rights to NGX 426 acquired in the 2009 Merger. The intangible assets related to DR Cysteamine and the RAP technology are amortized using the straight-line method over the estimated useful life of 20 years, which is the life of the intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. The intangible assets related to the out-license will be amortized using the straight-line method over the estimated useful life of 16 years, which is the life of the intellectual property patents. The intangible assets related to NGX 426, which has been classified as in-process research and development, will not be amortized until development is completed.

(g) Goodwill

Goodwill represents the excess of the value of the purchase consideration over the identifiable assets acquired in the 2009 Merger. Goodwill is reviewed annually, or when an indication of impairment exists, to determine if any impairment analysis and resulting write-down in valuation is necessary.

(h) Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful life of the asset or the lease term. Significant additions and improvements that have useful lives estimated at greater than one year are capitalized, while repairs and maintenance are charged to expense as incurred.

(i) Impairment of Long-Lived Assets

The Company evaluates its long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. The Company has not identified any such impairment losses to date.

(j) Common Stock Warrant Liabilities

The warrants issued by the Company in the a 2010 private placement contain a cash-out provision which may be triggered upon request by the warrant holders if the Company is acquired or upon the occurrence of certain other fundamental transactions involving the Company. This provision requires these warrants to be classified as liabilities and will be marked to market at each period-end commencing on August 31, 2010. The warrants issued by the Company in its December 2009 equity financing contain a conditional obligation that may require the Company to transfer assets to repurchase the warrants upon the occurrence of potential future events. Under the Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) Topic 480, Distinguishing Liabilities from Equity (“ASC 480”), a financial instrument that

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RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

may require the issuer to settle the obligation by transferring assets is classified as a liability. Therefore, the Company has classified the warrants as liabilities and will mark them to fair value at each period-end.

(k) Marked-to-Market

The common stock warrants issued in the Company's 2010 private placement and its December 2009 equity financing are classified as liabilities under ASC 480 and are, therefore, re-measured at the end of every reporting period with the change in value reported in its consolidated statements of operations.

(l) Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

(m) Research and Development

The Company is a development stage biotechnology company. Research and development costs are charged to expense as incurred. Research and development expenses include medical, clinical, regulatory and scientists' salaries and benefits, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses.

(n) In-Process Research and Development

Prior to September 1, 2009, the Company recorded in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. Upon the adoption of the revised guidance on business combinations, effective September 1, 2009, the fair value of acquired in-process research and development is capitalized and tested for impairment at least annually. Upon completion of the research and development activities, the intangible asset is amortized into earnings over the related product's useful life. The Company reviews each product candidate acquisition to determine the existence of in-process research and

development.

(o) Net Loss per Share

Net loss per share is calculated by dividing net loss by the weighted average shares of common stock outstanding during the period. Diluted net income per share is calculated by dividing net income by the weighted average shares of common stock outstanding and potential shares of common stock during the period. For all periods presented, potentially dilutive securities are excluded from the computation of fully diluted net loss per share as their effect is anti-dilutive. Potentially dilutive securities include:

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RAPTOR PHARMACEUTICAL CORP.

(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

| | August 31, | |
|---------------------------------------|------------|-----------|
| | 2010 | 2009 |
| Warrants to purchase common stock | 10,373,228 | 2,057,990 |
| Options to purchase common stock | 1,391,288 | 989,213 |
| Total potentially dilutive securities | 11,764,516 | 3,047,203 |

(p) Stock Option Plan

Effective September 1, 2006, the Company adopted the provisions of FASB ASC Topic 718, Accounting for Compensation Arrangements, (“ASC 718”) (previously listed as Statement of Financial Accounting Standards (“SFAS”) No. 123 (revised 2004), Share-Based Payment) in accounting for its stock option plans. Under ASC 718, compensation cost is measured at the grant date based on the fair value of the equity instruments awarded and is recognized over the period during which an employee is required to provide service in exchange for the award, or the requisite service period, which is usually the vesting period. The fair value of the equity award granted is estimated on the date of the grant. The Company previously applied Accounting Principles Board (“APB”) Opinion No. 25, Accounting for Stock Issued to Employees, and related interpretations and provided the required pro forma disclosures required by SFAS No. 123, Accounting for Stock-Based Compensation. The Company accounts for stock options issued to third parties, including consultants, in accordance with the provisions of the FASB ASC Topic 505-50, Equity-Based Payments to Non-Employees, (“ASC 505-50”) (previously listed as Emerging Issues Task Force (“EITF”) Consensus No. 96-18, Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods or Services). See Note 8, Stock Option Plans, for further discussion of employee stock-based compensation.

(q) Recent Accounting Pronouncements

In December 2007, the EITF reached a consensus on ASC Topic 808, Collaborative Agreement (“ASC 808”) (previously EITF 07-01, Accounting for Collaborative Arrangements). ASC 808 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. ASC 808 is effective for fiscal years beginning after December 15, 2008. As a result, ASC 808 is effective for the Company as of September 1, 2009. Based upon the nature of the Company’s

business, ASC 808 could have a material impact on the Company's financial position and consolidated results of operations in future years, but had no material impact for the year ended August 31, 2010.

In December 2007, the FASB issued ASC Topic 805, Business Combinations, ("ASC 805") (previously SFAS 141(R)) and FASB ASC Topic 810, Consolidation ("ASC 810") (previously SFAS 160, Noncontrolling Interests in Consolidated Financial Statements, an amendment of ARB No. 51). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. ASC 805 requires companies to: (i) recognize, with certain

RAPTOR PHARMACEUTICAL CORP.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and gain contingencies at their acquisition-date fair values; (v) capitalize in-process research and development assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in ASC Topic 420, Exit and Disposal Cost Obligations (previously SFAS No. 146, Accounting for Costs Associated with Exit or Disposal Activities), are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. ASC 805 is required to be adopted concurrently with ASC 810 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (the Company's fiscal 2010). Early adoption of these statements is prohibited. The Company believes the adoption of these statements will have a material impact on significant acquisitions completed after September 1, 2009. See Note 10 which reflects the accounting treatment of the 2009 Merger utilizing these provisions.

In May 2008, the FASB released ASC Topic 470, Debt ("ASC 470") (previously FASB Staff Position APB 14-1 Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement)), which alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. ASC 470 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. ASC 470 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, the Company adopted ASC 470 as of September 1, 2009. The Company has determined that ASC 470 had no material impact on its consolidated financial statements for the year ended August 31, 2010.

In April 2008, the FASB issued ASC Topic 350, Intangibles – Goodwill and Other ("ASC 350") (previously FSP SFAS No. 142-3, Determination of the Useful Life of Intangible Assets). ASC 350 provides guidance with respect to estimating the useful lives of recognized intangible assets acquired on or after the effective date and requires

additional disclosure related to the renewal or extension of the terms of recognized intangible assets. ASC 350 is effective for fiscal years and interim periods beginning after December 15, 2008. The Company adopted ASC 350 as of September 1, 2009 and has determined that ASC 350 had no material impact on the Company's consolidated financial statements for the year ended August 31, 2010.

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

In May 2009, the FASB issued ASC Topic 855, Subsequent Events (“ASC 855”) (previously SFAS No. 165, Subsequent Events). ASC 855 establishes general standards of accounting for and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. ASC 855 defines the period after the balance sheet date during which management of a reporting entity should evaluate events or transactions that may occur for potential recognition or disclosure in the financial statements, and the circumstances under which an entity should recognize events or transactions occurring after the balance sheet date in its financial statements. ASC 855 is effective for fiscal years and interim periods ending after June 15, 2009. The Company adopted ASC 855 as of August 31, 2009 and anticipates that the adoption will impact the accounting and disclosure of future transactions. The Company’s management has evaluated and disclosed subsequent events from the balance sheet date of August 31, 2010 through the date these consolidated financial statements were available to be issued.

ASC Topic 825, Financial Instruments, (“ASC 825”) (previously FSP FAS 107-1 and APB 28-1 amends FASB Statement No. 107, Disclosures about Fair Value of Financial Instruments), to require disclosures about the fair value of financial instruments for interim reporting periods of publicly traded companies as well as in annual financial statements. ASC 825 also amends APB Opinion No. 28, Interim Financial Reporting, to require those disclosures in summarized financial information at interim reporting periods. The adoption of ASC 825 did not have a material impact on the Company’s consolidated financial statements for the year ended August 31, 2010.

In June 2009, the FASB issued SFAS No. 167, Amendments to FASB Interpretation No. 46(R) (“SFAS 167”), which has not yet been codified in the ASC. The amendments include: (i) the elimination of the exemption for qualifying special purpose entities, (ii) a new approach for determining who should consolidate a variable-interest entity, and (iii) changes to when it is necessary to reassess who should consolidate a variable-interest entity. This statement is effective for fiscal years beginning after November 15, 2009, and for interim periods within that first annual reporting period. The Company is currently evaluating the impact of this standard, however, it does not expect SFAS 167 will have a material impact on its consolidated financial statements.

In June 2009, the FASB issued ASC Topic 860, Transfers and Servicing (Statement No. 166, Accounting for Transfers of Financial Assets — an amendment of FASB Statement No. 140) (“ASC 860”). The guidance removes the concept of a qualifying special purpose entity and changes the requirements for derecognizing financial assets. Many types of transferred financial assets that would have been derecognized previously are no longer eligible for derecognition. The guidance is effective for statements issued for fiscal years and interim periods beginning after November 15, 2009, and early adoption is prohibited. The guidance applies prospectively to transfers of financial assets occurring on or after the effective date. The Company is currently assessing the impact of ASC 860 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

In October 2009, the FASB issued ASU Update No. 2009-13, Revenue Recognition (Topic 605), Multiple Deliverable Revenue Arrangements. This guidance eliminates the residual method of allocation and requires the relative selling

price method when allocating deliverables of a multiple-deliverable revenue arrangement. The determination of the selling price for each deliverable requires the use of a hierarchy designed to maximize the use of available objective evidence, including: vendor specific objective evidence, third party evidence of selling price, or estimated selling price. The guidance is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010, and must be adopted in the same period using the same transition method. If adoption is elected in a period other than the beginning of a fiscal year, the amendments in these standards must be applied retrospectively to the beginning of the fiscal year. Full retrospective application of these amendments to prior fiscal years is optional. Early adoption of these standards may be elected. The Company will adopt these standards on September 1, 2010 and is currently reviewing the impact on its consolidated financial statements.

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In January 2010, the FASB issued Accounting Standards Update (“ASU”) 2010-06, Fair Value Measurements and Disclosures (Topic 820): Improving Disclosures about Fair Value Measurements (“ASU 2010-6”). The ASU amends Subtopic 820-10 with new disclosure requirements and clarification of existing disclosure requirements. New disclosures required include the amount of significant transfers in and out of levels 1 and 2 fair value measurements and the reasons for the transfers. In addition, the reconciliation for level 3 activity will be required on a gross rather than net basis. The ASU provides additional guidance related to the level of disaggregation in determining classes of assets and liabilities and disclosures about inputs and valuation techniques. The amendments are effective for annual or interim reporting periods beginning after December 15, 2009, except for the requirement to provide the reconciliation for level 3 activity on a gross basis, which will be effective for fiscal years beginning after December 15, 2010. The Company is currently assessing the impact of ASU 2010-6 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

In April 2010, the FASB issued ASU 2010-17, Revenue Recognition – Milestone Method (Topic 605): Milestone Method of Revenue Recognition (“ASU 2010-17”). ASU 2010-17 provides guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Consideration that is contingent on achievement of a milestone in its entirety may be recognized as revenue in the period in which the milestone is achieved only if the milestone is judged to meet certain criteria to be considered substantive. Milestones should be considered substantive in their entirety and may not be bifurcated. An arrangement may contain both substantive and nonsubstantive milestones, and each milestone should be evaluated individually to determine if it is substantive. ASU 2010-17 is effective on a prospective basis for milestones achieved in fiscal years, and interim periods within those years, beginning on or after June 15, 2010, with early adoption permitted. The Company will adopt ASU 2010-17 as of September 1, 2010 and does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

(3) INTANGIBLE ASSETS AND GOODWILL

On January 27, 2006, BioMarin Pharmaceutical Inc. (“BioMarin”) assigned the intellectual property and other rights relating to the RAP technology to the Company. As consideration for the assignment of the RAP technology, BioMarin will receive milestone payments based on certain financing and regulatory triggering events. No other consideration was paid for this assignment. The Company has recorded \$150,000 of intangible assets on the consolidated balance sheets as of May 31, 2010 and August 31, 2009 based on the estimated fair value of its agreement with BioMarin.

On December 14, 2007, the Company acquired the intellectual property and other rights to develop DR Cysteamine to treat various clinical indications from the University of California at San Diego (“UCSD”) by way of a merger with Encode Pharmaceuticals, Inc. (“Encode”), a privately held research and development company, which held the intellectual property license with UCSD. The intangible assets, recorded at approximately \$2.6 million acquired in the merger with Encode, were primarily based on the value of the Company’s common stock and warrants issued to the Encode stockholder.

Intangible assets recorded as a result of the 2009 Merger were approximately \$1.1 million as discussed in Note 10 below.

Summary of intangibles acquired as discussed above:

| | | |
|---|----|-----------|
| Intangible asset (IP license) related to the Encode merger | \$ | 2,620,000 |
| Intangible asset related to NeuroTrans™ purchase from BioMarin | | 150,000 |
| Intangible assets (out-license) related to the 2009 Merger | | 240,000 |
| In-process research and development (IP license) related to the 2009 Merger | | 900,000 |
| Total intangible assets | | 3,910,000 |
| Less accumulated amortization | | (397,458) |
| Intangible assets, net | \$ | 3,512,542 |

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The intangible assets related to DR Cysteamine and NeuroTrans™ are being amortized monthly over 20 years, which are the life of the intellectual property patents and the estimated useful life. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. The intangible assets related to the out-license will be amortized using the straight-line method over the estimated useful life of 16 years, which is the life of the intellectual property patents. The intangible assets related to NGX 426, which has been classified as in-process research and development, will not be amortized until the product is developed. During the years ended August 31, 2010 and 2009 and the cumulative period from September 8, 2005 (inception) to August 31, 2010, the Company amortized \$152,250, \$138,500 and \$397,458, respectively, of intangible assets to research and development expense.

The following table summarizes the actual and estimated amortization expense for intangible assets for the periods indicated:

| Amortization period | Amortization expense |
|---|----------------------|
| September 8, 2005 (inception) to August 31, 2006 – actual | \$ 4,375 |
| Fiscal year ended August 31, 2007 – actual | 7,500 |
| Fiscal year ended August 31, 2008 – actual | 94,833 |
| Fiscal year ended August 31, 2009 – actual | 138,500 |
| Fiscal year ended August 31, 2010 – actual | 152,250 |
| Fiscal year ending August 31, 2011 – estimate | 153,500 |
| Fiscal year ending August 31, 2012 – estimate | 153,500 |
| Fiscal year ending August 31, 2013 – estimate | 153,500 |
| Fiscal year ending August 31, 2014 – estimate | 153,500 |
| Fiscal year ending August 31, 2015 – estimate | 153,500 |

Goodwill of \$3,275,403 represents the excess of total consideration recorded for the 2009 Merger over the value of the assets assumed. The Company has reviewed the carrying value of goodwill for impairment and has determined that there is no impairment.

(4) FIXED ASSETS

Fixed assets consisted of:

| Category | August 31, 2010 | August 31, 2009 | Estimated useful lives |
|------------------------|-----------------|-----------------|--|
| Leasehold improvements | \$ 119,773 | \$ 113,422 | Shorter of life of asset or lease term |
| Office furniture | 3,188 | 3,188 | 7 years |

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| | | | |
|--------------------------------|-----------|------------|--|
| Laboratory equipment | 277,303 | 277,303 | 5 years |
| Computer hardware and software | 94,842 | 80,437 | 3 years |
| Capital lease equipment | 14,006 | 14,006 | Shorter of life of asset or lease term |
| Total at cost | 509,112 | 488,356 | |
| Less: accumulated depreciation | (415,863) | (343,621) | |
| Total fixed assets, net | \$ 93,249 | \$ 144,735 | |

Depreciation expense for the years ended August 31, 2010 and 2009 and the cumulative period from September 8, 2005 (inception) to August 31, 2010 was \$72,241, \$84,693 and \$423,181, respectively. Accumulated depreciation on capital lease equipment was \$8,260 and \$3,951 as of August 31, 2010 and 2009, respectively.

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(5) FAIR VALUE MEASUREMENT

The Company uses a fair-value approach to value certain assets and liabilities. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. The Company uses a fair value hierarchy, which distinguishes between assumptions based on market data (observable inputs) and an entity's own assumptions (unobservable inputs). The hierarchy consists of three levels:

- Level one — Quoted market prices in active markets for identical assets or liabilities;
- Level two — Inputs other than level one inputs that are either directly or indirectly observable; and
- Level three — Unobservable inputs developed using estimates and assumptions, which are developed by the reporting entity and reflect those assumptions that a market participant would use.

Determining which category an asset or liability falls within the hierarchy requires significant judgment. The Company evaluates its hierarchy disclosures each quarter. Assets and liabilities measured at fair value on a recurring basis at August 31, 2010 and 2009 are summarized as follows:

| Assets | Level 1 | Level 2 | Level 3 | August 31, 2010 |
|-------------------------------------|--------------|---------|--------------|-----------------|
| Fair value of cash equivalents | \$16,509,186 | \$ — | \$ — | \$16,509,186 |
| Total | \$16,509,186 | \$ — | \$ — | \$16,509,186 |
| Liabilities | | | | |
| Fair value of common stock warrants | \$ — | \$ — | \$15,780,216 | \$15,780,216 |
| Total | \$ — | \$ — | \$15,780,216 | \$15,780,216 |

| Assets | Level 1 | Level 2 | Level 3 | August 31, 2009 |
|--------------------------------|--------------|---------|---------|-----------------|
| Fair value of cash equivalents | \$ 3,515,353 | \$ — | \$ — | \$ 3,515,353 |

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| | | | | | | |
|-------|--------------|----|---|----|---|--------------|
| Total | \$ 3,515,353 | \$ | — | \$ | — | \$ 3,515,353 |
|-------|--------------|----|---|----|---|--------------|

Cash equivalents represent the fair value of the Company's investment in two money market accounts as of August 31, 2010 and 2009.

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RAPTOR PHARMACEUTICAL CORP.

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Marked-to-Market

The common stock warrants issued in the Company's August 2010 private placement and the Company's December 2009 equity financing are classified as liabilities under ASC 480 and are, therefore, re-measured at the end of every reporting period with the change in value reported in its consolidated statements of operations.

For the year ended August 31, 2010, as a result of the marking-to-market of the warrant liability, the Company recorded a loss of \$5.89 million, in the line item adjustment to fair value of common stock warrants in its consolidated statement of operations. See Note 11 for further discussion on the calculation of the fair value of the warrant liability.

| | Warrant liability in \$ millions |
|---|--|
| Fair value of warrants (including broker warrants) at issuance date on December 23, 2009 | 1.92 |
| Adjustment to mark to market common stock warrants at August 31, 2010 | 3.91 |
| December 2009 direct offering common stock warrant liability at fair value on August 31, 2010 | 5.83 |
| Fair value of warrants (including broker warrants) at issuance date on August 12, 2010 | 7.97 |
| Adjustment to mark to market common stock warrants at August 31, 2010 | 1.98 |
| August 2010 private placement common stock warrant liability at fair value on August 31, 2010 | 9.95 |
| Total warrant liability August 31, 2010 | 15.78 |

(6) ACCRUED LIABILITIES

Accrued liabilities consisted of:

| | 2010 | August 31, | 2009 |
|----------------------|------------|------------|------|
| Clinical trial costs | \$ 280,918 | | \$ - |

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| | | |
|---|--------------|------------|
| Clinical milestone payment due to UCSD | 200,000 | - |
| Accrued bonuses | 184,021 | - |
| Legal fees | 182,890 | 195,552 |
| Salaries and wages | 88,024 | 57,351 |
| Accrued vacation | 79,077 | 38,109 |
| Clinical trial materials | 50,000 | - |
| Auditing and tax preparation fees | 33,245 | 19,720 |
| Consulting - general and administrative | 19,304 | - |
| Patent costs | 8,956 | 10,500 |
| Consulting - research and development | - | 21,000 |
| 2009 Merger joint proxy/prospectus | - | 109,011 |
| Other | 3,375 | - |
| Total accrued liabilities | \$ 1,129,810 | \$ 451,243 |

(7) IN-PROCESS RESEARCH AND DEVELOPMENT

On October 17, 2007, the Company purchased certain assets of Convivia, Inc. (“Convivia”), including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. The Company issued an aggregate of 101,991 shares of its restricted, unregistered common stock to the seller and other third parties in settlement of the asset purchase. Pursuant to ASC Topic 730, Research and Development (previously Financial Accounting Standard (“FAS”) 2 Paragraph 11(c), Intangibles Purchased From Others), the Company has expensed the value of the common stock issued in connection with this asset purchase as in-process research and development expense. The amount expensed was based upon the closing price of Raptor’s common stock on the date of the closing of the asset purchase transaction of \$2.359 per share multiplied by the aggregate number of shares of Raptor common stock issued or 101,991 for a total expense of \$240,625 recorded on Raptor’s consolidated statement of operations during the year ended August 31, 2008.

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(8) STOCK OPTION PLANS

Effective September 1, 2006, the Company began recording compensation expense associated with stock options and other forms of equity compensation in accordance with ASC 718. Prior to September 1, 2006, the Company accounted for stock options according to the provisions of Accounting Principles Board (“APB”) Opinion No. 25, Accounting for Stock Issued to Employees, and related interpretations, and therefore no related compensation expense was recorded for awards granted with no intrinsic value. The Company adopted the modified prospective transition method provided for under ASC 718, and consequently has not retroactively adjusted results from prior periods. Under this transition method, compensation cost associated with stock options now includes: (i) quarterly amortization related to the remaining unvested portion of all stock option awards granted prior to September 1, 2006, based on the grant date value estimated in accordance with the original provisions of ASC 718; and (ii) quarterly amortization related to all stock option awards granted subsequent to September 1, 2006, based on the grant date fair value estimated in accordance with the provisions of ASC 718. In addition, the Company records consulting expense over the vesting period of stock options granted to consultants. The compensation expense for stock-based compensation awards includes an estimate for forfeitures and is recognized over the requisite service period of the options, which is typically the period over which the options vest, using the straight-line method. Employee stock-based compensation expense for the years ended August 31, 2010 and 2009 and for the cumulative period from September 8, 2005 (inception) to August 31, 2010 was \$216,732, \$354,494 and \$1,431,758, respectively, of which cumulatively \$1,186,398 was included in general and administrative expense and \$245,360 was included in research and development expense. No employee stock compensation costs were recognized for the period from September 8, 2005 (inception) to August 31, 2006, which was prior to the Company’s adoption of ASC 718.

Stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following:

| Period* | Risk-free interest rate | Expected life of stock option | Annual volatility | Annual turnover rate |
|---|----------------------------|--|----------------------|----------------------------|
| September 8, 2005 (inception) to August 31, 2006** | 5% | 10 years | 100% | 0% |
| | 5% | 8 years | 100% | 10% |

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| | | | | |
|---------------------------------|-------|---------|------|------|
| Quarter ended November 30, 2006 | | | | |
| Quarter ended February 28, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended May 31, 2007 | 5% | 8 years | 100% | 10% |
| Quarter ended August 31, 2007 | 4% | 8 years | 100% | 10% |
| Quarter ended November 30, 2007 | 3.75% | 8 years | 109% | 10% |
| Quarter ended February 29, 2008 | 2% | 8 years | 119% | 10% |
| Quarter ended May 31, 2008 | 2% | 8 years | 121% | 10% |
| Quarter ended August 31, 2008 | 2.5% | 8 years | 128% | 10% |
| Quarter ended November 30, 2008 | 1.5% | 7 years | 170% | 10% |
| Quarter ended February 28, 2009 | 2.0% | 7 years | 220% | 10% |
| Quarter ended May 31, 2009 | 2.6% | 7 years | 233% | 10% |
| Quarter ended August 31, 2009 | 3.2% | 7 years | 240% | 10% |
| Quarter ended November 30, 2009 | 3.0% | 7 years | 245% | 10% |
| Quarter ended February 28, 2010 | 3.1% | 7 years | 55% | 10% |
| Quarter ended May 31, 2010 | 3.1% | 7 years | 77% | 2.5% |
| Quarter ended August 31, 2010 | 2.07% | 6 years | 85% | 2.5% |

* Dividend rate is 0% for all periods presented.

** Stock-based compensation expense was recorded on the consolidated statements of operations commencing on the effective date of ASC 718, September 1, 2006. Prior to September 1, 2006, stock based compensation was reflected only in the footnotes to the consolidated statements of operations, with no effect on the consolidated statements of operations, per the guidelines of APB Opinion No. 25. Consultant stock-based compensation expense has been recorded on the consolidated statements of operations since inception.

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If factors change and different assumptions are employed in the application of ASC 718, the compensation expense recorded in future periods may differ significantly from what was recorded in the current period.

During the quarter ended May 31, 2010, the Company changed its volatility calculation to reflect its historical trading commencing on September 30, 2009, which is the date that the 2009 Merger was consummated and the Company's common stock started trading on NASDAQ. The Company originally estimated volatility based upon historical volatility commencing in June 2006, when it first began trading on the Over-the-Counter Bulletin Board. The Company changed the volatility assumptions to better reflect its anticipated trading on NASDAQ. During the quarter ended May 31, 2010, the Company analyzed its actual turnover rate and concluded that 2.5% was a more accurate turnover rate on an annual basis.

The Company recognizes as an expense the fair value of options granted to persons who are neither employees nor directors. The fair value of expensed options was based on the Black-Scholes option-pricing model assuming the same factors shown in the stock-based compensation expense table above. Stock-based compensation expense for consultants for the years ended August 31, 2010 and 2009 and for the cumulative period from September 8, 2005 (inception) to August 31, 2010 was \$78,327, \$48,094 and \$485,941, respectively, of which cumulatively \$118,919 was included in general and administrative expense and \$367,021 was included in research and development expense.

A summary of the activity in the 2010 Equity Incentive Plan, the 2006 Equity Compensation Plan, as amended and the Company's other stock option plans, is as follows:

| | Option shares | Weighted- average exercise price | Exercisable | Weighted- average fair value of options granted |
|-------------------------------------|---------------|--|-------------|--|
| Outstanding at September 8, 2005 | — | — | — | — |
| Granted | 580,108 | \$ 2.64 | — | \$ 2.47 |
| Exercised | — | — | — | — |
| Canceled | — | — | — | — |
| Outstanding at August 31, 2006 | 580,108 | \$ 2.64 | 4,010 | \$ 2.47 |
| Granted | 107,452 | \$ 2.56 | — | \$ 2.31 |
| Exercised | (3,381) | \$ 2.57 | — | \$ 2.40 |
| Canceled | — | — | — | — |
| Outstanding at August 31, 2007 | 684,179 | \$ 2.63 | 273,236 | \$ 2.45 |

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| | | | | |
|--------------------------------|-----------|-----------|-----------|---------|
| Granted | 223,439 | \$ 2.27 | — | \$ 2.21 |
| Exercised | — | — | — | — |
| Canceled | — | — | — | — |
| Outstanding at August 31, 2008 | 907,618 | \$ 2.54 | 600,837 | \$ 2.39 |
| Granted | 81,595 | \$ 1.13 | — | \$ 1.04 |
| Exercised | — | — | — | — |
| Canceled | — | — | — | — |
| Outstanding at August 31, 2009 | 989,213 | \$ 2.42 | 826,303 | \$ 2.40 |
| Granted | 302,772 | \$ 2.29 | 160,605 | \$ 1.24 |
| Assumed in the 2009 Merger | 161,044 | \$ 114.12 | 158,475 | \$ 2.63 |
| Exercised | (37,881) | \$ 1.69 | — | \$ 1.49 |
| Canceled | (23,860) | \$ 142.42 | — | \$ 2.00 |
| Outstanding at August 31, 2010 | 1,391,288 | \$ 14.25 | 1,089,248 | \$ 1.87 |

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The weighted average intrinsic values of stock options outstanding and expected to vest and stock options exercisable as of August 31, 2010 and 2009 were \$526,891, \$311,279, \$66,937 and \$11,364, respectively.

There were 2,697,228 options available for grant as of August 31, 2010 under the 2010 Equity Incentive Plan, which was approved by the Company's Board of Directors as of February 2, 2010 and approved by its stockholders on March 9, 2010. No further grants will be made under any previous or assumed stock option plans. As of August 31, 2010, the options outstanding under all of the Company's stock option plans consisted of the following:

| Range of exercise prices | Number of options outstanding and expected to vest (#) | Options outstanding | | Weighted-average Exercise price (\$) | Options exercisable | |
|--------------------------|--|--|-----------------------------|--------------------------------------|-----------------------------------|--------------------------------------|
| | | Weighted-average remaining contractual life (yrs.) | Weighted-average price (\$) | | Number of options exercisable (#) | Weighted-average exercise price (\$) |
| \$0 to \$1.00 | 34,969 | 8.63 | .85 | 11,656 | 0.85 | |
| \$1.01 to \$2.00 | 86,259 | 8.74 | 1.73 | 35,901 | 1.64 | |
| \$2.01 to \$3.00 | 1,050,147 | 6.84 | 2.46 | 851,504 | 2.55 | |
| \$3.01 to \$4.00 | 105,802 | 9.26 | 3.57 | 78,847 | 3.67 | |
| \$4.01 to \$5.00 | 62,104 | 9.13 | 4.57 | 59,333 | 4.59 | |
| \$5.01 to \$1,564 | 52,007 | 5.00 | 315.34 | 52,007 | 315.34 | |
| | 1,391,288 | 7.15 | 14.25 | 1,089,248 | 17.62 | |

At August 31, 2010, the total unrecognized compensation cost was approximately \$471,000. The weighted average period over which it is expected to be recognized is 3 years.

(9) INCOME TAXES

The provision for income taxes differs from the amount estimated by applying the statutory federal income tax rate to income (loss) before taxes as follows:

| | 2010 | August 31, | 2009 |
|---|----------------|------------|------------------------|
| Federal tax (benefit) at statutory rate | \$ (6,390,517) | -34.00% | \$ (3,132,608) -34.00% |
| State tax (benefit) at statutory rate, net of federal tax benefit | (953,473) | -5.07% | (629,304) -6.83% |
| Change in valuation allowance | 6,067,977 | 32.28% | 5,069,715 55.02% |

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| | | | | |
|----------------------------------|-----------|--------|-------------|---------|
| Research and development credits | (708,240) | -3.77% | (1,325,036) | -14.38% |
| Fair market value of warrants | 2,004,203 | 10.66% | - | -% |
| Other | (19,950) | -0.10% | 17,233 | 0.19% |
| Provision for income taxes | \$ (0) | (0) | \$ 0 | 0 |

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Deferred tax assets (liabilities) consist of the following (in thousands):

| | 2010 | August 31, | 2009 |
|---|--------------|------------|-------------|
| Deferred tax assets | | | |
| Net operating loss carryforwards | \$ 9,154,868 | \$ | 4,722,078 |
| Capitalized start-up costs | 3,487,300 | | 1,615,625 |
| Stock option expense | 268,019 | | 207,169 |
| Research credit | 3,513,229 | | 2,223,767 |
| Capital loss carryforwards | 55,768 | | 47,600 |
| Basis difference for fixed assets and intangibles | 216,556 | | 277,941 |
| Accruals | 37,389 | | 24,823 |
| Valuation allowance | (16,733,129) | | (9,119,003) |
| Gross deferred tax asset | \$ 0 | \$ | 0 |

As of August 31, 2010, the Company had net operating loss carryforwards for federal and state income tax purposes of approximately \$22.6 million and \$25.0 million respectively, which expire beginning after the year 2022 and 2015, respectively. As of August 31, 2010, the Company had federal and state research and development credits of \$3.2 million and \$.5 million respectively. The federal credits expire beginning after the year 2026 and the state credits have no expiration.

The valuation allowance increased approximately \$7.6 million during the year ended August 31, 2010, primarily as a result of current year losses.

Utilization of the Company's net operating loss may be subject to substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code of 1986, as amended, or the Code, and similar state provisions. Such an annual limitation could result in the expiration of the net operating loss before utilization.

In July 2006, the FASB released Final Interpretation No. 48, Accounting for Uncertainty in Income Taxes ("FIN 48"). FIN 48 prescribes the minimum recognition threshold a tax position is required to meet before being recognized in the financial statements. This interpretation also provides guidance on the recognition of income tax assets and liabilities, classification of current and deferred income tax assets and liabilities, accounting for interest and penalties associated with tax positions, accounting for income taxes in interim periods, and income tax disclosures. FIN 48 also requires additional disclosure of the beginning and ending unrecognized tax benefits and details regarding the uncertainties that

may cause the unrecognized benefits to increase or decrease within a twelve-month period. FIN 48 is effective for fiscal years beginning after December 15, 2006, with the cumulative effect of the change in accounting principle, if any, recorded as an adjustment to opening retained earnings.

On September 1, 2009, we adopted FASB Topic 740 - Income Taxes ("Topic 740") - an interpretation of FIN 48. As of September 1, 2009, no unrecognized tax benefits were recorded. Because of net operating loss and research credit carryforwards, substantially all of the Company's tax years, from 2001 through 2009, remain open to U.S. federal and state tax examinations. The Company did not record a change in its unrecorded tax benefits during the year ended August 31, 2010, and expects no change in its unrecorded tax benefits in the next 12 months. The Company's policy will be to recognize interest and penalties related to income taxes in income tax expense. The Company is not aware of any pending income tax audits. Significant components of the Company's deferred tax assets for income tax purposes are net operating loss carryforwards, capitalized start-up costs, stock-based compensation and research credits. Due to the Company's lack of earning history, any deferred assets recorded have been fully offset by a valuation allowance.

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(10) ISSUANCE OF COMMON STOCK

As of August 31, 2010, there were 30,076,758 shares of the Company's common stock outstanding.

ISSUANCE OF COMMON STOCK PURSUANT TO COMMON STOCK WARRANT EXERCISES AND STOCK OPTION EXERCISES

During the year ended August 31, 2010, the Company received \$475,020 from the exercise of warrants in exchange for the issuance of 189,056 shares of the Company's common stock and the Company issued 7,680 shares of its common stock resulting from a cashless exercise of a warrant issued in 2007 in connection with the purchase of DR Cysteamine. During the cumulative period from September 8, 2005 (inception) through August 31, 2010, the Company received approximately \$7.0 million from the exercise of warrants in exchange for the issuance of an aggregate of 3,741,767 shares.

During the year ended August 31, 2010, the Company received \$64,022 from the exercise of stock options in exchange for 37,881 shares of the Company's common stock. For the cumulative period from September 8, 2005 (inception) through August 31, 2010, the Company received \$72,718 from the exercise of stock options resulting in the issuance of 41,261 shares of common stock.

ISSUANCE OF COMMON STOCK PURSUANT TO AN ASSET PURCHASE AGREEMENT WITH CONVIVIA, INC.

On October 18, 2007, the Company purchased certain assets of Convivia, including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. The Company hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as President of its clinical division. In exchange for the assets related to the ALDH2 deficiency program, the Company issued to Convivia 46,625 shares of its restricted, unregistered common stock, an additional 46,625 shares of its restricted, unregistered common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 8,742 shares of restricted, unregistered common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia (now dissolved), may earn additional shares of the Company based on certain triggering events or milestones related to the development of Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement for executing the Patheon formulation agreement for manufacturing ConviviaTM. In March 2008, Mr. Daley earned a \$10,000 cash bonus pursuant to his employment agreement and was issued 23,312 shares of common stock valued at \$56,000 based on the execution of an agreement to supply the Company with the active pharmaceutical ingredient for

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ConviviaTM pursuant to the asset purchase agreement. In October 2008, Mr. Daley was issued 23,312 shares of restricted common stock valued at \$27,000 and earned a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) pursuant to the fulfillment of a clinical milestone. In July 2010, the Company issued 11,656 shares of its restricted common stock valued at \$35,551 and paid a \$10,000 cash bonus to Mr. Daley as a result of the execution of the license agreement with Uni Pharma for the development of ConviviaTM in Taiwan. Pursuant to ASC 730, the accounting guidelines for expensing research and development costs, the Company has expensed the value of the stock issued in connection with this asset purchase (except for milestone bonuses, which are expensed as compensation expense) as in-process research and development expense in the amount of \$240,625 on its consolidated statement of operations for the year ended August 31, 2008.

MERGER OF RAPTOR'S CLINICAL DEVELOPMENT SUBSIDIARY AND ENCODE PHARMACEUTICALS, INC.

On December 14, 2007, the Company entered into a Merger Agreement (the "Encode Merger Agreement"), dated as of the same date, by and between the Company, its clinical development subsidiary and Encode Pharmaceuticals, Inc. ("Encode"), a privately held development stage company. Pursuant to the Encode Merger Agreement, a certificate of merger was filed with the Secretary of State of the State of Delaware and Encode was merged with and into the Company's clinical development subsidiary. The existence of Encode ceased as of the date of the Encode Merger Agreement. Pursuant to the Encode Merger Agreement and the certificate of merger, the Company's clinical development subsidiary, as the surviving corporation, continued as a wholly-owned subsidiary of the Company. Under the terms of and subject to the conditions set forth in the Encode Merger Agreement, the Company issued 802,946 shares of restricted, unregistered shares of the Company's common stock, par value \$.001 per share (the "Common Stock") to the stockholders of Encode (the "Encode Stockholders"), options ("Company Options") to purchase 83,325 shares of Common Stock to the optionholders of Encode (the "Encode Optionholders"), and warrants ("Company Warrants") to purchase 256,034 restricted, unregistered shares of Common Stock to the warrantholders of Encode (the "Encode Warrantholders", and together with the Encode Stockholders and Encode Optionholders, the "Encode Securityholders"), as of the date of the Encode Merger Agreement. Such Common Stock, Company Options to purchase Common Stock, and Company Warrants to purchase Common Stock combine for an aggregate amount of 1,142,305 shares of Common Stock issuable to the Encode Securityholders as of the closing of the merger with Encode. The purchase price was valued at \$2.6 million, which is reflected as intangible assets on the Company's consolidated balance sheet as of August 31, 2008, primarily based on the value of the Company's common stock and warrants issued to Encode stockholders. The Encode Securityholders are eligible to receive up to an additional 559,496 shares of Common Stock, Company Options and Company Warrants to purchase Common Stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program described below, if completed within the five year anniversary date of the Encode Merger Agreement. The Company recorded this transaction as an asset purchase rather than a business combination, as Encode had not commenced planned principal operations at the time of the merger, such as generating revenues from its drug product candidate.

As a result of the merger with Encode, the Company received the exclusive worldwide license to DR Cysteamine (“License Agreement”), developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary enterically coated formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the U.S. Food and Drug Administration (“FDA”). Cysteamine bitartrate is prescribed for the management of the genetic disorder known as nephropathic cystinosis (“cystinosis”), a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as Huntington’s Disease and NASH.

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In consideration of the grant of the license, the Company will be obligated to pay an annual maintenance fee until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year the Company begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. To the extent that the Company fails to perform any of the obligations, UCSD may terminate the license or otherwise cause the license to become non-exclusive. To-date, Raptor has accrued \$470,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH.

ISSUANCES OF COMMON STOCK AND WARRANTS IN CONNECTION WITH THE SALE OF UNITS IN A PRIVATE PLACEMENT

During the period from May 21, 2008 through June 27, 2008, Raptor entered into a Securities Purchase Agreement, as amended (the "2008 Private Placement Purchase Agreement"), with 11 investors for the private placement of units of the Company, each unit comprised of one share of Raptor's Common Stock and one warrant to purchase one half of one share of Raptor's Common Stock, at a purchase price of \$2.14 per unit. Pursuant to the 2008 Private Placement Purchase Agreement, the Company sold an aggregate of 4,662,468 shares of Common Stock for aggregate gross proceeds of \$10 million and issued to the investors warrants, exercisable for two years from the initial closing, which entitle the investors to purchase up to an aggregate of 2,331,234 shares of Common Stock of the Company and have an exercise price of either \$3.22 or \$3.86 per share, depending on when such warrants are exercised, if at all, and were valued at approximately \$3 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 2%; expected term 2 years and annual volatility 121.45%).

In connection with the May / June 2008 private placement, the Company issued warrants and a cash fee to placement agents to compensate them for placing investors into the financing. Placement agents were issued warrants exercisable for 7% of Common Stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon the proceeds of the sale of the units of the private placement. In connection with the sale of units, the Company issued placement agent warrants to purchase 489,559 shares of Raptor's Common Stock at an exercise price of \$2.36 per share for a five year term (valued at approximately \$960,000 using the following Black-Scholes pricing model assumptions: risk-free interest rate 2%; expected term 5 years and annual volatility 121.45%) and cash fees to placement agents totaling \$700,000. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 438,890 shares of Raptor's Common Stock and cash commission of \$627,550. One of the Company's Board members serves on the board of Limetree Capital.

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On April 29, 2009, in order to reflect current market prices, Raptor notified the holders of warrants purchased in the May/June 2008 private placement that the Company was offering, in exchange for such warrants, new warrants to purchase its common stock at an exercise price of \$1.29 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The new warrants were valued at approximately \$2.3 million based on the following Black-Scholes pricing model assumptions: risk-free interest rate 0.55%; expected term 1 year and annual

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volatility 231.97%. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$3.86 per share and original expiration date of May 21, 2010. The Company received \$2,614,500 of proceeds from warrant exercises that resulted in the issuance of 2,031,670 shares of Raptor's common stock pursuant to the exchange described above.

On August 21, 2009, Raptor entered into a securities purchase agreement, with four investors for the private placement of units of the Company at a purchase price of \$1.37 per unit, each unit comprised of one share of Raptor's common stock, par value \$0.001 per share and one warrant to purchase one half of one share of Raptor's common stock. Pursuant to the securities purchase agreement, the Company sold an aggregate of 1,738,226 units to the investors for aggregate gross proceeds of \$2,386,000. The 1,738,226 units are comprised of an aggregate of 1,738,226 shares of common stock and warrants to purchase up to 869,113 shares of Raptor's common stock valued at \$1.0 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 1.11%; expected term 2 years and annual volatility 240.29%). The warrants, exercisable for two years from the closing, entitle the investors to purchase, in the aggregate, up to 869,113 shares of Raptor's common stock and have an exercise price of either \$2.57 until the first anniversary of issuance or \$3.22 per share after the first anniversary of issuance.

In connection with the August 2009 private placement, the Company issued warrants and a cash fee to Limetree Capital as its sole placement agent to compensate it for placing investors into the financing. Limetree Capital was issued warrants exercisable for 7% of common stock issued and issuable under the warrants issued to investors as part of the financing units and a 3.5% cash fee based upon the proceeds of the sale of the units of the August 2009 private placement. Limetree Capital was issued a five-year warrant to purchase 129,733 shares of Raptor's Common Stock at an exercise price of \$1.50 per share (valued at approximately \$171,000 using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.58%; expected term 5 years and annual volatility 240.29%) and cash commission of \$59,360.

2009 MERGER AND NASDAQ LISTING

On September 29, 2009, the Company, formerly known as TorreyPines Therapeutics, Inc. ("TorreyPines") and RPC completed a reverse merger. The Company changed its name to "Raptor Pharmaceutical Corp." and commenced trading on September 30, 2009 on the NASDAQ Capital Market under the ticker symbol "RPTP."

In connection with the exchange of shares in the merger, immediately after the effective time of such merger, RPC and the Company's stockholders owned 95% and 5% of the outstanding shares of the combined company, respectively. RPC stockholders received (as of immediately prior to such merger) 17,881,300 shares of the combined company's common stock in exchange for the 76,703,147 shares of RPC's common stock outstanding immediately prior to the closing of the merger. On September 29, 2009, immediately prior to the effective time of such merger, the Company's board of directors, with the consent of RPC's board of directors, acted to effect a reverse stock split of the issued and outstanding shares of the Company's common stock such that every 17 shares of the Company's common stock outstanding immediately prior to the effective time of the merger would represent one share of the Company's

common stock. Due to the reverse stock split implemented by the Company, the 15,999,058 shares of the Company's common stock outstanding immediately prior to the closing of the merger became 940,863 shares of the combined company's common stock.

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In connection with the merger and subject to the same conversion factor as the RPC common stock (.2331234), the combined company assumed all of RPC's stock options and warrants outstanding at the time of the merger. The combined company also retained the Company's stock options and warrants outstanding at the merger, subject to the same adjustment factor as described above to give effect to the 1 for 17 reverse split.

The combined company is headquartered in Novato, California and is managed by Christopher M. Starr, Ph.D., as Chief Executive Officer and director, Todd C. Zankel, Ph.D., as Chief Scientific Officer, Kim R. Tsuchimoto as Chief Financial Officer, Ted Daley, as President of the clinical division and Patrice P. Rioux., M.D., Ph.D., as Chief Medical Officer of the clinical division.

There were a number of factors on which RPC's board of directors relied in approving the 2009 Merger. The primary reason for RPC's board of directors' decision to merge with TorreyPines was the benefit anticipated from the additional liquidity expected from having a NASDAQ trading market on which the combined company's common stock could be listed, in addition to having access to an expanded pipeline of product candidates and having development capabilities across a wider spectrum of diseases and markets.

The liquidity benefit is the primary factor behind the goodwill recognized in the transaction (see below). The goodwill has been assigned to the Company's clinical segment and is expected to be fully deductible for tax purposes. Below is a breakdown of the assets acquired and liabilities assumed in the merger described herein (in millions, except for %):

| Asset Allocation | Value (millions) | % |
|-----------------------------------|------------------|------|
| Cash and equivalents | \$ 0.58 | 13 |
| Other current assets | 0.10 | 2 |
| Accrued liabilities | (0.68) | (15) |
| Intangible assets: | | |
| In-process research & development | 0.90 | 20 |
| Licenses | 0.24 | 6 |
| Total identifiable assets | 1.14 | 26 |
| Plus Goodwill | 3.28 | 74 |
| Total net assets acquired | \$ 4.42 | 100 |

Acquisition costs incurred by the Company related to the 2009 Merger were approximately \$0.4 million and were expensed as incurred. If the 2009 Merger had occurred on September 1, 2008, the Company's revenues would have increased by approximately \$1.5 million from fees earned by TorreyPines from the sale one of its programs in the quarter ended December 31, 2008, for total pro forma revenues of \$1.5 million for the year ended August 31, 2009. Net loss would have increased by approximately \$2.5 million due to an increase of revenues of \$1.5 million described above offset by \$3.1 million of loss on impairment of purchased patents recognized by TorreyPines during the period plus \$0.9 million in transaction costs and costs associated with obligations owed to the TorreyPines employees for a pro forma net loss and net loss per share of \$11.7 million or \$0.81 per share for the year ended August 31, 2009. If the 2009 Merger had occurred on September 1, 2009, the Company's revenues would have remained zero and the Company's net loss and net loss per share for the year ended August 31, 2010 would have remained \$18.9 million or \$0.85 per share.

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ISSUANCES OF COMMON STOCK AND WARRANTS IN CONNECTION WITH THE SALE OF UNITS IN A REGISTERED DIRECT OFFERING

On December 17, 2009, the Company entered into a Placement Agent Agreement with Ladenburg Thalmann & Co. Inc. as placement agent (the "Placement Agent"), relating to the issuance and sale to the Direct Offering Investors (as defined below) pursuant to a registered direct offering (the "Offering") of up to 3,747,558 units (the "Units"), consisting of (i) 3,747,558 shares of the Company's common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of the Company's common stock (and the shares of common stock issuable from time to time upon exercise of such warrants) (the "Series A Warrants"), and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of the Company's common stock (and the shares of common stock issuable from time to time upon exercise of such warrants) (the "Series B Warrants," and collectively with the Series A Warrants, the "Investor Warrants").

The Placement Agent for the Direct Offering received a placement fee equal to 6.5% of the gross cash proceeds to the Company from the Direct Offering of the Units or \$487,183 (excluding any consideration that may be paid in the future upon exercise of the Warrants), a warrant to purchase up to an aggregate of 74,951 shares of the Company's common stock at \$2.50 per share (valued at approximately \$52,000 using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and \$25,000 in out-of-pocket accountable expenses. The warrant issued to Ladenburg has the same terms and conditions as the Investor Warrants except that the exercise price is 125% of the public offering price per share or \$2.50 per share, and the expiration date is five years from the effective date of the Registration Statement.

In connection with the Direct Offering, following execution of the Placement Agent Agreement, the Company also entered into a definitive securities purchase agreement (the "Direct Offering Purchase Agreement"), dated as of December 17, 2009, with 33 investors set forth on the signature pages thereto (collectively, the "Direct Offering Investors") with respect to the Direct Offering of the Units, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per Unit, amounting to gross proceeds of approximately \$7.5 million and net proceeds after commissions and expenses of approximately \$6.2 million. Each Unit consists of one share of the Company's common stock, one Series A Warrant exercisable for 0.5 of a share of the Company's common stock and one Series B Warrant exercisable for 0.5 of a share of the Company's common stock. The shares of the Company's common stock and the Warrants were issued separately. The Series A Warrants will be exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the fifth (5th) anniversary of the date of issue. The Series B Warrants will be exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the eighteen (18) month anniversary of the date of issue. The Investor Warrants have a per share exercise price of \$2.45. At closing of the financing, the Series A Warrants were valued at \$1.3 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and the Series B Warrants were valued at \$0.5 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 0.56%; expected term 18 months and annual volatility 49.28%). Based on the underlying terms of the Investor Warrants and Placement Agent Warrants, the Investor Warrants are classified as liability, as discussed further below in Note 11.

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ISSUANCES OF COMMON STOCK IN CONNECTION WITH AN EQUITY LINE

On April 16, 2010, the Company signed a purchase agreement with Lincoln Park Capital Fund, LLC (“LPC”), together with a registration rights agreement, whereby LPC has agreed to purchase up to \$15 million of the Company’s common stock over a 25 month period. Under the registration rights agreement, the Company agreed to file a registration statement related to the transaction with the U.S. Securities and Exchange Commission (“SEC”) covering the shares that have been issued or may be issued to LPC under the purchase agreement. Such registration statement was declared effective by the SEC on May 7, 2010. The Company has the right over a 25-month period to sell its shares of common stock to LPC in amounts of \$100,000 to up to \$1,000,000 per sale, depending on certain conditions as set forth in the purchase agreement, up to the aggregate amount of \$15 million. The purchase agreement may be terminated by the Company at any time at its discretion without any cost to the Company.

The purchase price of the shares issued to LPC under the purchase agreement is based on the prevailing market prices of the Company’s shares at the time of sale without any fixed discount. The Company controls the timing and amount of any sales of shares to LPC. LPC does not have the right or the obligation to purchase any shares of the Company’s common stock on any business day that the purchase price of the Company’s common stock is below \$1.50 per share.

In consideration for entering into the purchase agreement, the Company issued to LPC 145,033 shares of common stock valued at \$246,556 (recorded as deferred offering costs on the Company’s balance sheet and amortized over the usage of the equity line) as a commitment fee and is required to issue up to an additional 217,549 shares of its common stock pro rata as LPC purchases the \$15 million of the Company’s common stock over the 25-month period. During the year ended August 31, 2010, the Company sold 2,170,798 shares to LPC at a weighted average price of \$2.26 and paid commitment fees to LPC in the form of 71,064 shares (in addition to the 145,033 shares issued as the initial commitment fee), valued at \$228,581.

2010 PRIVATE PLACEMENT

On August 9, 2010, we entered into a securities purchase agreement with 23 investors set forth on the signature pages thereto (or, the U.S. Investors) and a separate securities purchase agreement with a certain Canadian investor (or, the Canadian Investor and together with the U.S. Investors, the 2010 Private Placement Investors) set forth on the signature pages thereto (or collectively, the 2010 Private Placement Purchase Agreements), for the private placement, or the 2010 Private Placement, of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. JMP Securities LLC, or the Placement Agent, served as our placement agent in the 2010 Private Placement.

The closing of this private placement occurred on August 12, 2010. We issued and sold an aggregate of 4,897,614 units, comprised of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. At closing of the 2010 Private Placement, the warrants issued to

investors were valued at approximately \$7.8 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 1.74%; expected term 5 years and annual volatility 85.14%.) As the placement agent for the 2010 Private Placement, the Placement Agent was issued one warrant to purchase 97,952 shares of our common stock (valued at approximately \$0.2 million, based upon the same Black-Scholes inputs as the investor warrants), paid a cash commission of \$978,911 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

In connection with the 2010 Private Placement, on August 12, 2010, we entered into a registration rights agreement, or the 2010 Private Placement Registration Rights Agreement, with the 2010 Private Placement

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Investors, pursuant to which we filed with the SEC a registration statement related to the 2010 Private Placement covering the resale of the common stock issued to the 2010 Private Placement Investors under the 2010 Private Placement Purchase Agreements and the shares of common stock that will be issued to the 2010 Private Placement Investors upon exercise of the warrants, including the warrant issued to the Placement Agent. Such registration statement was declared effective on August 31, 2010.

The following is a summary of common stock outstanding as of August 31, 2010:

| Transaction | Date of Issuance | Common Stock Issued |
|--|--------------------------|---------------------|
| Founders' shares | Sept. 2005 | 1,398,742 |
| Seed round | Feb. 2006 | 466,247 |
| PIPE concurrent with reverse merger | May 2006 | 1,942,695 |
| Shares issued in connection with reverse merger | May 2006 | 3,100,541 |
| Warrant exercises | Jan. – Nov. 2007 | 1,513,359 |
| Stock option exercises | Mar. 2007 | 3,380 |
| Loan finder's fee | Sept. 2007 | 46,625 |
| Convivia asset purchase | Oct. 2007 – June 2010 | 160,272 |
| Encode merger DR Cysteamine asset purchase | Dec. 2007 | 802,946 |
| Shares issued pursuant to consulting agreement | May 2008 | 2,040 |
| PIPE — initial tranche | May 2008 | 1,030,405 |
| PIPE — second tranche | May 2008 | 69,937 |
| PIPE — third tranche | June 2008 | 3,562,126 |
| Warrant exercises from warrant exchange | June/July 2009 | 2,031,670 |
| PIPE | August 2009 | 1,738,226 |
| Warrant exercises | Sept. 2009 – Aug. 2010 | 196,736 |
| Shares issued in connection with reverse merger | September 2009 | 940,863 |
| Stock option exercises | October 2009 – June 2010 | 37,881 |
| Registered direct financing | December 2009 | 3,747,558 |
| Shares issued to equity line investor (incl. fee shares) | April 2010 – July 2010 | 2,386,895 |
| 2010 private placement | August 2010 | 4,897,614 |
| Total shares of common stock outstanding | | 30,076,758 |

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(11) WARRANTS

The table reflects the number common stock warrants outstanding as of August 31, 2010:

| | Number of shares exercisable | Exercise price | Expiration date |
|--|------------------------------------|----------------|---------------------|
| Issued in lieu of deferred legal fees | 13,987 | \$ 2.57 | 2/13/2011 |
| Issued in connection with Encode merger | 233,309 | \$ 2.87 | 12/13/2015 |
| Issued to placement agents in May / June 2008 | 465,816 | \$ 2.36 | 5/21/2013 |
| Issued to PIPE investors in August 2009 | 752,551 | \$ 3.22 | 8/21/2011 |
| Issued to placement agents in August 2009 | 129,733 | \$ 1.50 | 8/21/2014 |
| TorreyPines warrants assumed in 2009 Merger | 8,507 | \$ 81.48* | 12/7/2010-9/26/2015 |
| Issued to registered direct investors in Dec. 2009 | 1,825,029 | \$ 2.45 | 6/22/2011 |
| Issued to registered direct investors in Dec. 2009 | 1,873,779 | \$ 2.45 | 12/23/2014 |
| Issued to placement agent in Dec. 2009 | 74,951 | \$ 2.50 | 12/23/2014 |
| Issued to private placement investors in Aug. 2010 | 4,897,614 | \$ 3.075 | 8/11/2015 |
| Issued to placement agent in Aug. 2010 | 97,952 | \$ 3.075 | 8/11/2015 |
| Total warrants outstanding | 10,373,228 | \$ 2.87* | |

* Average exercise price

The warrants issued by the Company in the August 2010 private placement and the December 2009 equity financing contain a conditional obligation that may require the Company to transfer assets to repurchase the warrants upon the occurrence of potential future events. Under ASC Topic 480, Distinguishing Liabilities from Equity ("ASC 480"), a

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financial instrument that may require the issuer to settle the obligation by transferring assets is classified as a liability. Therefore, the Company has classified the warrants from both financings as liabilities and will mark them to fair value at each period end.

A Black-Scholes option-pricing model was used to obtain the fair value of the warrants issued in the December 2009 equity financing using the following assumptions:

| | December 2009 equity financing | | | | | | August 2010 private placement Investors and placement agent | |
|--------------------------|--------------------------------|--------------------|-------------------------------|--------------------|-------------------------------|--------------------|---|--------------------|
| | Series A | | Series B | | Placement Agent | | At issuance | At August 31, 2010 |
| | At issuance December 23, 2009 | At August 31, 2010 | At issuance December 23, 2009 | At August 31, 2010 | At issuance December 23, 2009 | At August 31, 2010 | At issuance August 12, 2010 | At August 31, 2010 |
| Fair value (\$ millions) | 1.3 | 3.7 | 0.5 | 2.0 | 0.05 | 0.1 | 8.0 | 9.9 |
| Black-Scholes inputs: | | | | | | | | |
| Stock price | \$1.89 | \$2.98 | \$1.89 | \$2.98 | \$1.89 | \$2.98 | \$2.50 | \$2.98 |
| Exercise price | \$2.45 | \$2.45 | \$2.45 | \$2.45 | \$2.50 | \$2.50 | \$3.075 | \$3.075 |
| Risk free interest rate | 2.23% | 1.36% | 0.56% | 0.24% | 2.23% | 1.36% | 1.74% | 1.74% |
| Volatility | 49.28% | 85.1% | 49.28% | 85.1% | 49.28% | 85.1% | 85.1% | 85.1% |
| Expected term (years) | 5.0 | 4.25 | 1.5 | 0.75 | 5.0 | 4.25 | 5.0 | 5.0 |
| Dividend | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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For the year ended August 31, 2010, as a result of the marking-to-market of the warrant liability, the Company recorded a loss of \$5.89 million, in the line item adjustment to fair value of common stock warrants in its consolidated statement of operations. See Note 5 for further discussion on the marking-to-market of the warrant liability.

(12) COMMITMENTS AND CONTINGENCIES

CONTRACTUAL OBLIGATIONS WITH BIOMARIN

Pursuant to the terms of the asset purchase agreement the Company entered into with BioMarin Pharmaceutical Inc. (“BioMarin”) for the purchase of intellectual property related to the Company’s receptor-associated protein (“RAP”) based technology (including NeuroTrans™), the Company is obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

\$50,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$2,500,000;

\$100,000 (paid by the Company in June 2006) within 30 days after Raptor receives total aggregate debt or equity financing of at least \$5,000,000;

\$500,000 upon the Company’s filing and acceptance of an investigational new drug application for a drug product candidate based on the NeuroTrans™ product candidate;

\$2,500,000 upon the Company’s successful completion of a Phase 2 human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 upon on the Company’s successful completion of a Phase 3 human clinical trial for a drug product candidate based on the NeuroTrans™ product candidate;

\$12,000,000 within 90 days of the Company’s obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 within 90 days of the Company’s obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on the NeuroTrans™ product candidate;

\$5,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$100,000,000; and

\$20,000,000 within 60 days after the end of the first calendar year in which the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate exceed \$500,000,000.

In addition to these milestone payments, the Company is also obligated to pay BioMarin a royalty at a percentage of the Company's aggregated revenues derived from drug product candidates based on the NeuroTrans™ product candidate. On June 9, 2006, the Company made a milestone payment in the amount of \$150,000 to BioMarin because the Company raised \$5,000,000 in its May 25, 2006 private placement financing. If the Company becomes insolvent or if the Company breaches its asset purchase agreement with BioMarin due to non-payment and the Company does not cure its non-payment within the stated cure period, all of the Company's rights to the RAP technology (including NeuroTrans™) will revert back to BioMarin.

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(A Development Stage Company)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

CONTRACTUAL OBLIGATIONS WITH THOMAS E. DALEY (ASSIGNEE OF THE DISSOLVED CONVIVIA, INC.)

Pursuant to the terms of the asset purchase agreement (“Asset Purchase Agreement”), the Company entered into with Convivia, Inc. and Thomas E. Daley for the purchase of intellectual property related to its 4-MP product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by the Company (or any of its subsidiaries thereof), as set forth below:

23,312 shares of Raptor’s restricted, unregistered Common Stock within fifteen (15) days after the Company enters into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia (“Purchased Assets”) in quantity (“Product”) if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of Raptor’s restricted, unregistered Common Stock. Should the Company obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 11,656 shares of the Company’s restricted, unregistered Common Stock within 30 days of execution of such second license or other agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement for executing the Patheon formulation agreement for manufacturing ConviviaTM. On March 31, 2008, the Company issued 23,312 shares of Raptor’s Common Stock valued at \$56,000 to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for ConviviaTM, combined with the execution of a formulation agreement to produce the oral formulation of ConviviaTM. In July 2010, the Company issued 11,656 shares of its restricted common stock valued at \$35,551 and paid a \$10,000 cash bonus to Mr. Daley as a result of the execution of the license agreement with Uni Pharma for the development of ConviviaTM in Taiwan.

23,312 shares of the Company’s restricted, unregistered Common Stock within fifteen (15) days after it receives its first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries (each, a “Major Market”).

11,656 shares of the Company’s restricted, unregistered Common Stock within fifteen (15) days after the Company receives its second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding paragraph above in a Major Market.

23,312 shares of the Company’s restricted, unregistered Common Stock within fifteen (15) days of completing predetermined benchmarks in a Major Market by the Company or its licensee of the first Phase 2 human clinical trial for a Product (“Successful Completion”) if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of the Company’s restricted, unregistered Common Stock within thirty (30) days of such Successful Completion. In October 2008, the Company issued 23,312 shares of Raptor’s Common Stock valued at \$27,000 and a \$30,000 cash bonus (pursuant to Mr. Daley’s employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone.

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11,656 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days of a Successful Completion in a Major Market by the Company's or its licensee of the second Phase 2 human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding paragraph above).

23,312 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought ("Marketing Approval").

11,656 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding paragraph above).

46,625 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a Major Market.

23,312 shares of the Company's restricted, unregistered Common Stock within fifteen (15) days after the Company or its licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding paragraph above).

As discussed above, in aggregate, the Company has issued to Mr. Daley, 58,281 shares of Raptor's common stock valued at \$118,551 and paid \$70,000 in cash bonuses related to ConviviaTM milestones along with another \$20,000 in cash bonuses related to employment milestones pursuant to Mr. Daley's employment agreement.

CONTRACTUAL OBLIGATIONS WITH FORMER ENCODE STOCKHOLDERS AND UCSD RELATING TO THE ACQUISITION OF THE DR CYSTEAMINE LICENSE

As a result of the merger between the Company's clinical subsidiary and Encode, as discussed in Note 9 above, the Encode Securityholders are eligible to receive up to an additional 559,496 shares of Raptor's common stock, Company Options and Company Warrants to purchase Raptor's common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

Also as a result of the merger, the Company will be obligated to pay an annual maintenance fee to UCSD for the exclusive license to develop DR Cysteamine for certain indications of \$15,000 until it begins commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, the Company will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a

minimum annual royalty commencing the year the Company begins commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, the Company is obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, the Company is obligated to, among other things, secure \$1 million in funding prior to December 18, 2008 (which the Company has

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fulfilled by raising \$10 million in its May/June 2008 private placement) and annually spend at least \$200,000 for the development of products (which, as of its fiscal years ended August 31, 2010 and 2009, the Company has fulfilled by spending approximately \$6.2 million and \$4.1 million, respectively, on such programs) pursuant to the License Agreement. To-date, the Company has accrued \$470,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that the Company fails to perform any of its obligations under the License Agreement, then UCSD may terminate the license or otherwise cause the license to become non-exclusive.

CONTRACTUAL OBLIGATIONS TO TPTX, INC. EMPLOYEES

Pursuant to the documents related to the 2009 Merger, including amended employment agreements with the TPTX, Inc. employees, who were former executives of TorreyPines prior to such merger, the Company was obligated to pay such former executives their salaries, benefits and other obligations through April 1, 2010, which obligations were settled in mid-April 2010. There were no remaining obligations to the former executives as of August 31, 2010.

OFFICE LEASES

In March 2006, the Company entered into a lease for the Company's executive offices and research laboratory in Novato, California and expanded the lease on April 1, 2007. Base monthly payments were subject to annual rent increase of between 3% to 5%, based on the Consumer Price Index ("CPI") and annual adjustments to base operating expenses. In October 2010, the Company executed a lease addendum to the Novato lease for an additional 3,100 square feet (\$5,309 per month) starting in January 2011. Effective April 1, 2010, the Company's monthly base rent including base operating expenses were \$10,826 and effective January 1, 2011, the Company's monthly base including base operating expenses will be \$16,135 with an adjustment for CPI and operating expenses in April 2012. The Novato lease expires in March 2013. In January 2010, the Company entered into a one year lease for administrative offices in San Mateo, California for \$2,655 per month. The Company anticipates continuing the San Mateo lease.

During the years ended August 31, 2010 and 2009 and the cumulative period from September 8, 2005 (inception) to August 31, 2010, the Company paid \$150,536, \$128,830 and \$518,931, respectively, in rent.

The minimum future lease payments under this operating lease assuming a 3% CPI increase per year are as follows:

| Period | Amount |
|--------------------------------------|------------|
| September 1, 2010 to August 31, 2011 | \$ 187,773 |
| September 1, 2011 to August 31, 2012 | 196,043 |
| September 1, 2012 to August 31, 2013 | 116,335 |

CAPITAL LEASE

In September 2008, the Company leased a photocopier which is subject to a 39-month lease at \$469 per month. The future lease payments under the capital lease are as follows:

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| Period | Amount |
|---|----------|
| Fiscal year ending August 31, 2011 | \$ 5,625 |
| September 1, 2011 to December 31, 2011 | 1,875 |
| Total future capital lease payments | 7,500 |
| Less interest | (824) |
| Total current and long-term capital lease liability | \$ 6,676 |

Interest rate on the capital lease is 17% based on the lessor's implicit rate of return.

CONTRACT/CLINICAL RESEARCH AGREEMENTS

During the year ended August 31, 2010, the Company maintained several contracts with consultants, research and clinical organizations and clinical sites to research drug pricing in the E.U., develop research assays, to assist with clinical research and to conduct clinical research for Raptor's cystinosis program.

The future commitments pursuant to the research agreement are as follows:

| Period | Amount |
|------------------------------------|--------------|
| Fiscal year ending August 31, 2011 | \$ 4,310,511 |
| Fiscal year ending August 31, 2012 | 620,718 |

STORAGE AND CLINICAL DISTRIBUTION AGREEMENT

During the year ended August 31, 2010, the Company maintained an agreement with a company that stores and distributes clinical materials for Raptor's cystinosis trial. The future commitments pursuant to this agreement are as follows:

| Period | Amount |
|------------------------------------|------------|
| Fiscal year ending August 31, 2011 | \$ 181,096 |

FORMULATION / MANUFACTURING AGREEMENTS

In April 2008, the Company executed an agreement with a contract manufacturing organization to formulate and manufacture DR Cysteamine for its cystinosis and Huntington's Disease programs. The costs are invoiced to the Company in installments throughout the formulation and manufacturing process. In July 2008, the Company executed a supply agreement with a contract manufacturer for the active pharmaceutical agreement of DR Cysteamine. In July 2010, the Company executed a manufacturing agreement to provide tezampanel study drug for the Company's thrombosis program. The future commitments pursuant to these contracts are as follows:

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| Period | Amount |
|------------------------------------|--------------|
| Fiscal year ending August 31, 2011 | \$ 1,529,573 |
| Fiscal year ending August 31, 2012 | 269,696 |

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NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(13) RELATED PARTY TRANSACTIONS

Pursuant to the terms of the Share Purchase Agreement, the Company issued to each of Drs. Starr and Zankel (its Chief Executive Officer and its Chief Scientific Officer, respectively) 699,370 shares of the Company's common stock and to Erich Sager (one of the Company's directors) 233,123 shares of its common stock. Mr. Sager purchased his shares pursuant to a promissory note when the Company was privately held in February 2006 in the amount of \$100,000 plus accrued interest at 8% per annum. Mr. Sager repaid \$50,000 of the note on February 8, 2006, another \$50,000 on March 9, 2006 and \$373 of accrued interest on April 11, 2006. Drs. Starr and Zankel and Mr. Sager did not own any shares of the Company's common stock at the time when the Share Purchase Agreement was first approved and executed.

In connection with the May / June 2008 private placement, the Company issued to Limetree Capital warrants to purchase 438,890 shares of Raptor's Common Stock and \$627,550 in cash commissions. In connection with the August 2009 private placement, the Company issued to Limetree Capital warrants to purchase 129,733 shares of Raptor's Common Stock and \$59,360 in cash commissions. Also, commencing on April 1, 2009, we engaged Limetree to support our investor relations efforts in Europe for a retainer of \$2,500 per month. Through August 31, 2009, we have paid \$12,500 in such fees to Limetree. One of Raptor's Board members serves on the Board of Limetree Capital. In August 2010, the Company entered into a consulting agreement with one of its Board members to provide business development support for a six-month period at a monthly retainer plus living expenses totaling approximately \$10,000 per month. In the ordinary course of business, Raptor's officers occasionally utilize their personal credit cards or cash to pay for expenses on behalf of the Company and the Company reimburses the officers within 30 days.

(14) SUBSEQUENT EVENTS

In October 2010, the Company received a tax grant under the U.S. Government's Qualifying Therapeutic Discovery Project for five of its research programs including its cystinosis, Huntington's Disease and NASH (non-alcoholic steatohepatitis) clinical programs and its HepTide™ and WntTide™ preclinical cancer research programs. Raptor was granted an aggregate of \$1 million for all five programs of which approximately \$827,000 was funded in October 2010 and the balance will be funded in October 2011.

In November 2010, the Company executed a 10-year agreement with Cambrex Profarmaco Milano, for supply of the active pharmaceutical ingredient used in DR Cysteamine, cysteamine bitartrate for Raptor's clinical and commercial material needs. The Company is unable to determine the financial impact of the agreement due to the uncertainty related to timing of commercial manufacturing and future clinical material needs until the Company is able to obtain marketing approval of DR Cysteamine for cystinosis and funding for a clinical trial in NASH or in indications other than cystinosis.

In November 2010, the Company executed a seven-year commercial manufacturing agreement of DR Cysteamine with Patheon Pharmaceutical Inc. with the option for two year extensions if not cancelled 18 months prior to expiration. The Company is unable to determine the financial impact of the agreement due to the uncertainty related to the timing of the marketing approval of DR Cysteamine for cystinosis, if at all.

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Part II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution

The following table lists the costs and expenses payable by the Registrant in connection with the sale of the common stock covered by this prospectus other than any sales commissions or discounts. All amounts shown are estimates except for the SEC registration fee.

| | |
|---------------------------------|-----------|
| SEC registration fee | \$ (1) |
| Legal fees and expenses | 5,000 |
| Accounting fees and expenses | 10,000 |
| Printing expenses | 0 |
| Miscellaneous fees and expenses | 0 |
| Total | \$ 15,000 |

(1) The required registration fee of \$1,674 was previously paid.

Item 14. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law empowers a corporation to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation or another enterprise if serving such enterprise at the request of the corporation. Depending on the character of the proceeding, a corporation may indemnify against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with such action, suit or proceeding if the person indemnified acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful. In the case of an action by or in the right of the corporation, no indemnification may be made in respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine that despite the adjudication of liability, but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses that the court shall deem proper. Section 145 further provides that to the extent a director or officer of a corporation has been successful in the defense of any action, suit or proceeding referred to above, or in defense of any claim, issue or matter therein, he or she shall be indemnified against expenses (including attorney's fees) actually and reasonably incurred by him or her in connection therewith.

Our certificate of incorporation, as amended, and bylaws, as amended, provide that we shall, to the fullest extent authorized by the Delaware General Corporation Law, indemnify our directors and executive officers; provided; however, that we may limit the extent of such indemnification by individual contracts with our directors and executive

officers; and, provided, further, that we shall not be required to indemnify any director or executive officer in connection with any proceeding (or part thereof) initiated by such person or any proceeding by such person against us or our directors, officers, employees or other agents unless (i) such indemnification is expressly required to be made by law, (ii) the proceeding was authorized by the board of directors, and (iii) such indemnification is provided by us, in our sole discretion, pursuant to our powers under the Delaware General Corporation Law.

Pursuant to the terms of the merger agreement between us and our wholly-owned subsidiary, Raptor Pharmaceuticals Corp. ("RPC"), for six years from the closing of the merger, RPC and we are jointly and severally liable to advance expenses to and indemnify each of our former directors and officers against costs and damages incurred as a result of such person serving in such capacity to the fullest extent permitted under the Delaware

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General Corporation Law. Pursuant to the terms of such merger agreement, RPC was required to purchase an insurance policy with an effective date as of the closing of such merger agreement, which maintains in effect for six years from such closing, the directors' and officers' liability insurance policies maintained by us immediately prior to the merger with respect to matters occurring prior to such closing provided that we are not to expend more than \$65,000 for such insurance.

We must maintain such directors' and officers' liability insurance policies for six years following the closing of the merger which occurred on September 29, 2009. Moreover, pursuant to the terms of such merger agreement, we may not modify or repeal for a period of six years time from September 29, 2009, provisions in our certificate of incorporation, as amended, or bylaws, as amended, with respect to indemnification, advancement of expenses and exculpation of present and former directors and officers in a manner that would adversely affect the rights thereunder of individuals who, at or prior to the effective time of the merger, were officers or directors of the Company. Finally, pursuant to the terms of such merger agreement, in the event RPC or we or any of their or our respective successors or assigns (i) consolidates with or merges into any other entity and shall not be the continuing or surviving entity of such consolidation or merger, or (ii) transfers all or substantially all of its properties and assets to any entity or person, then, and in each such case, proper provision must be made so that the successors and assigns, as the case may be, shall succeed to the obligations set forth in the merger agreement with respect to the indemnification of officers and directors as described herein.

We have entered into agreements to indemnify our directors and executive officers. These indemnity agreements require us to hold harmless and indemnify each of our directors and executive officers (i) to the fullest extent authorized or permitted by the provisions of our bylaws and the Delaware General Corporation Law, as the same may be amended from time to time, and (ii) subject to certain exclusions, against expenses that such director or executive officer becomes legally obligated to pay because of any claim or claims made against or by such director or executive officer in connection with threatened, pending or completed actions, suits or proceedings, to which such director or executive officer at any time becomes a party or a participant, or is threatened to be made a party, by reason of the fact that such director or executive officer is, was or at any time becomes a director, officer, employee or other agent of ours, or is or was serving or at any time serves at our request as a director, officer, employee or other agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, including any of our subsidiaries. These indemnity agreements also establish the processes and procedures for indemnification claims, advancement of expenses and costs and other determinations with respect to indemnification. The contractual rights to indemnification provided by these indemnity agreements are subject to the limitations and conditions specified in such agreements.

Our bylaws, as amended, also permit us to maintain insurance to protect us and any director, officer, employee or agent against any liability with respect to which we would have the power to indemnify such persons under the Delaware General Corporation Law. We maintain an insurance policy insuring our directors and officers against certain liabilities.

Item 15. Recent Sales of Unregistered Securities

The information contained in this Item 15 relates to all securities of the Registrant sold by the Registrant since November 18, 2007 which were not registered under the Securities Act. All share numbers and exercise prices are converted to post-2009 Merger shares and exercise prices.

RPC Stock Options Granted Pursuant to RPC's Stock Option Plan

From November 18, 2007 to through September 29, 2009, RPC entered into stock option agreements under its 2006 Equity Incentive Plan, as amended, to issue the following stock options to purchase a total of 381,969 shares of RPC's common stock:

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| Grant Date / Type of Stock Option(1) | Type of Optionee | Number of Stock Options | Exercise Price |
|--------------------------------------|------------------|-------------------------|----------------|
| Dec. 17, 2007 / NQ | Consultants | 83,325 | \$ 2.44 |
| May 13, 2008 / NQ | Consultant | 17,485 | \$ 2.27 |
| July 10, 2008 / NQ | Board Member | 34,969 | \$ 2.23 |
| August 12, 2008 / ISO | Employees | 32,058 | \$ 1.88 |
| October 6, 2008 / ISO | Employee | 17,485 | \$ 1.07 |
| February 23, 2009 / NQ | Consultant | 29,141 | \$ 1.50 |
| April 16, 2009 / ISO | Employee | 34,969 | \$ 0.85 |
| Total stock option grants | | 249,432 | |

(1)NQ – Non-qualified stock option. ISO – Incentive stock options. All stock options expire ten years from grant date. These issuances were exempt from registration under the Securities Act pursuant to an exemption under Section 4(2) thereof as a sale of securities not involving any public offering. These issuances were made to members of our board of directors, employees and consultants of RPC in exchange for services rendered to RPC by or on behalf of such optionee. The stock options have various vesting schedules.

The forms of stock option agreements for RPC's 2006 Equity Incentive Plan were filed as RPC's Exhibits 10.1 and 10.2 to its Current Report on Form 8-K filed with the SEC on August 25, 2006.

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RPC's Common Stock Issued Pursuant to RPC's Warrant Exercises

| Warrant Holder | Warrant Issue Date | Number of Warrants Exercised | Exercise Price | Expiration Date | Exercise Date | Shares Issued Upon Exercise | Proceeds Received |
|-------------------------|--------------------|------------------------------|----------------|-----------------|---------------|-----------------------------|-------------------|
| Beruska Capital | 5/25/2006 | 186,499 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 186,499 | \$ 480,000 |
| RBC Dominion | 5/25/2006 | 65,275 | \$ 2.57 | 11/25/2007 | 11/21/2007 | 65,275 | \$ 168,000 |
| RBC Dominion | 5/25/2006 | 52,453 | \$ 2.57 | 11/25/2007 | 11/21/2007 | 52,453 | \$ 135,000 |
| Falcon Invest. | 5/25/2006 | 69,937 | \$ 2.57 | 11/25/2007 | 11/16/2007 | 69,937 | \$ 180,000 |
| Haywood Sec. | 5/25/2006 | 23,312 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 23,312 | \$ 60,000 |
| Haywood Sec. | 5/25/2006 | 11,656 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 11,656 | \$ 30,000 |
| Haywood Sec. | 5/25/2006 | 23,312 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 23,312 | \$ 60,000 |
| Haywood Sec. | 5/25/2006 | 11,656 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 11,656 | \$ 30,000 |
| Canaccord | 5/25/2006 | 48,568 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 48,568 | \$ 125,000 |
| Canaccord | 5/25/2006 | 48,568 | \$ 2.57 | 11/25/2007 | 11/23/2007 | 48,568 | \$ 125,000 |
| Swiss American | 5/25/2006 | 4,662 | \$ 2.57 | 11/25/2007 | 11/28/2007 | 4,662 | \$ 12,000 |
| Schroeders | 5/25/2006 | 163,186 | \$ 2.57 | 11/25/2007 | 11/29/2007 | 163,186 | \$ 420,000 |
| CAT Brokerage | 5/21/2008 | 58,281 | \$ 1.29 | 5/21/2010 | 6/25/2009 | 58,281 | \$ 75,000 |
| Aran Asset Mgmt. | 5/21/2008 | 273,920 | \$ 1.29 | 5/21/2010 | 6/25/2009 | 273,920 | \$ 352,500 |
| Aran Asset Mgmt. | 6/27/2008 | 1,515,302 | \$ 1.29 | 6/27/2010 | 7/22/2009 | 1,515,302 | \$ 1,950,000 |
| Canaccord ITF | | | 1.29 | | | | \$ |
| Dexamenos | 5/21/2008 | 11,656 | \$ | 5/21/2010 | 7/1/2009 | 11,656 | 15,000 |
| Skye Asset Mgmt. | 5/30/2008 | 34,969 | \$ 1.29 | 5/30/2010 | 6/25/2009 | 34,969 | \$ 45,000 |
| Skye Asset Mgmt. | 6/27/2008 | 137,543 | \$ 1.29 | 6/27/2010 | 6/25/2009 | 137,543 | \$ 177,000 |
| CAT Brokerage | 5/21/2008 | 23,744 | \$ 2.36 | 5/21/2013 | 9/25/2009 | 23,744 | \$ 56,018 |
| Total warrant exercises | | 2,764,499 | | | | 2,764,499 | 4,495,518 \$ |

The table above reflects RPC common stock warrants exercised from November 18, 2007 to September 29, 2009. All of these warrants were issued in connection with RPC's private placements of common stock and warrants in May 2006 and May / June 2008 in transactions exempt from registration pursuant to Section 4(2) of the Securities Act. The RPC common stock issued upon exercise of the warrants from the May 2006 private placement have been registered for resale pursuant to RPC's registration statement on Form SB-2, as amended, which was declared effective on July 10, 2006. In July 2008, RPC filed a registration statement covering the 2008 private placement described below including the common stock issued upon exercise of the warrants from RPC's 2008 private placement that amended, on a post-effective basis, the July 2006 registration statement on Form SB-2. In August 2008, such registration

statement was declared effective by the SEC. In October 2009, we filed a post-2009 Merger Form S-3 registering unexercised warrants from RPC's May / June 2008 private placement.

As a result of the exercise of the warrants, RPC received aggregate net cash proceeds of approximately \$4.5 million and used the proceeds for working capital purposes.

RPC claimed an exemption from the registration requirements of the Securities Act for the issuance of its common stock underlying the warrants pursuant to Section 4(2) of the Securities Act because, among other things, the transactions did not involve a public offering, the investors were accredited investors and/or qualified institutional buyers and the investors had access to information about RPC and their investment.

Other Issuances of RPC's Common Stock

RPC's May and June 2008 Private Placement

During May and June 2008, RPC closed a private placement of 4,662,468 units of its securities, each unit comprised of one share of RPC's common stock and one warrant to purchase one half of one share of RPC's common stock, at a purchase price of \$2.15 per unit. The warrants, exercisable for two years from closing, entitle the investors to purchase up to an aggregate of 2,331,234 shares of RPC's common stock at an exercise price of \$3.22 per share during the first year and \$3.86 per share during the second year.

This transaction was exempt from registration pursuant to Section 4(2) of the Securities Act and the common stock issued and issuable upon exercise of the warrants was subject to registration for resale pursuant to a registration statement on Form S-1 filed in July 2008 and which was declared effective in August 2008. In October 2009, we filed and the SEC declared effective a Form S-3 replacing the Form S-1 for the common stock issued in the May / June 2008 private placement and the common stock underlying any unexercised warrants.

RPC claimed an exemption from the registration requirements of the Securities Act for the issuance of RPC's common stock underlying the warrants pursuant to Section 4(2) of the Securities Act because, among other things, the transaction did not involve a public offering, the investors were accredited investors and/or qualified institutional buyers and the investors had access to information about RPC and their investment. The proceeds from this transaction were used to fund working capital to continue and expand RPC's ongoing business.

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| May and June 2008 private placement security holder | Number of shares of common stock | Number of shares of common stock issuable pursuant to warrants issued (2) |
|--|----------------------------------|---|
| Aran Asset Management | 3,811,568 | 1,905,784 |
| Skye Asset Management | 368,335 | 184,167 |
| CAT Brokerage | 116,562 | 58,281 |
| Winton Capital Holdings Ltd. | 116,562 | 58,281 |
| Brahma Finance (BVI) Limited | 116,562 | 58,281 |
| Nitro-gen Pty Ltd. ATF Curson Family Trust | 46,625 | 23,312 |
| Errol Bome | 34,969 | 17,485 |
| Josan Consultants PTY Ltd. | 27,975 | 13,987 |
| Canaccord (Dexamenos Developpement) | 23,312 | 11,656 |
| Limetree Capital (1) | | 438,890 |
| CAT Brokerage (1) | | 23,744 |
| Gibralt Capital (1) | | 12,239 |
| Nick Barham (1) | | 12,239 |
| Canaccord (1) | | 2,447 |
| Total securities issued in May / June 2008 private placement | 4,662,470 | 2,820,793 |

- (1) In connection with the private placement, RPC issued warrants and a cash fee to placement agents to compensate them for placing investors into the financing. Placement agents were issued warrants exercisable for 7% of common stock issued and issuable under the warrants issued to investors as part of the financing units and a cash fee based upon the proceeds of the sale of the units of the private placement. RPC issued placement agent warrants to purchase 489,559 shares of RPC's common stock at an exercise price of \$2.36 per share for a five year term and cash fees to placement agents totaling \$700,000. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 438,890 shares of RPC's common stock and cash commissions of \$627,550. One of RPC's and our Board members serves on the board of directors of Limetree Capital.
- (2) On April 29, 2009, in order to reflect current market prices, RPC notified the holders of warrants purchased in the May/June 2008 private placement that RPC was offering, in exchange for such warrants, new warrants to purchase RPC's common stock at an exercise price of \$1.29 per share, but only to the extent such exchange and exercise, including the delivery of the exercise price, occurred prior to or on July 17, 2009. If the exchange and exercise did not occur by that date, then the original, unexercised warrants with an exercise price of \$3.86 per share remained in place in accordance with the warrant agreement and such original, unexercised warrants have retained their original expiration date of May 21, 2010.

RPC's 2009 Private Placement

On August 21, 2009, RPC entered into a Securities Purchase Agreement with four investors for the private placement of units of RPC at a purchase price of \$1.37 per unit, each unit comprised of one share of RPC's common stock, par value \$0.001 per share and one warrant to purchase one half of one share of RPC's common stock.

In this 2009 private placement, RPC sold an aggregate of 1,738,226 units, comprised of an aggregate of 1,738,226 shares of common stock and two-year warrants for aggregate gross proceeds of \$2,386,000. The warrants entitle the investors to purchase, in the aggregate, up to 869,113 shares of Raptor's common stock and have an exercise price of either \$2.57 or \$3.22 per share, depending on when such warrants are exercised, if at all.

As a placement agent to the 2009 private placement, Limetree Capital was issued warrants to purchase 129,733 shares of RPC's Common Stock and cash commission of \$59,360. One of RPCs and our board members serves on the board of Limetree Capital.

| August 2009 private placement security holder | Number of shares of common stock | Number of shares of common stock issuable pursuant to warrants issued |
|--|---|--|
| Aran Asset Management | 1,235,554 | 617,777 |
| VP Bank Switzerland | 233,123 | 116,562 |
| Charles B. Scoville, Jr. Trust | 233,123 | 116,562 |
| Rune Kjekken | 36,426 | 18,212 |
| Limetree Capital (1) | | 129,733 |
| Total securities issued in August 2009 private placement | 1,738,226 | 998,846 |

- (1) In connection with the private placement, RPC issued warrants and a cash fee to Limetree Capital as a placement agent to compensate them for placing investors into the financing. Limetree Capital was issued warrants exercisable for 7% of common stock issued and issuable under the warrants issued to investors placed by them as part of the financing units and a 3.5% cash fee based upon the proceeds of the sale of the units of the private placement placed by them. RPC issued Limetree Capital warrants to purchase 129,733 shares of RPC's common stock at an exercise price of \$1.50 per share for a five year term and cash fees totaling \$59,360. One of RPC's and our Board members serves on the board of directors of Limetree Capital.

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Other RPC Common Stock Issuances

| Other Issuances of Common Stock | Date of Issuance | Number of Shares of Common Stock Issued | Explanation |
|---|------------------|---|---|
| Jupili Investments | Sept. 2007 | 46,625 | Stock issued pursuant to a loan agreement in lieu of a loan finder's fee, no proceeds were received for the issuance of this stock (2) |
| Thomas E. Daley, President of Raptor's subsidiary, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), as sole stockholder of Convivia, Inc., which has been dissolved | Oct. 2007 | 46,625 | Stock issued pursuant to an asset purchase agreement with Convivia, Inc. to purchase certain assets relating to the development of 4-MP for ALDH2 deficiency, no proceeds were received for the issuance of this stock (2) |
| Third party creditor to Convivia, Inc. | Oct. 2007 | 46,625 | Stock issued pursuant to an asset purchase agreement with Convivia, Inc. in settlement of Convivia's debt to a third party as a closing condition to purchase certain assets relating to the development of 4-MP for ALDH2 deficiency, no proceeds were received for the issuance of this stock (2) |
| Third party consultants to Convivia Inc. | Oct. 2007 | 8,742 | Stock issued pursuant to an asset purchase agreement with Convivia, Inc. in settlement of Convivia's obligations to third party consultants, no proceeds were received for the issuance of this stock (2) |
| Flower Ventures, majority stockholder of Encode Pharmaceuticals, Inc. | Dec. 2007 | 757,496 | Stock issued pursuant to a merger agreement with Encode Pharmaceuticals, Inc. related to the purchase of a license agreement with UCSD and two consulting agreements with UCSD clinicians for the development of DR Cysteamine, no proceeds were received for the issuance of this stock (2) |

| Other Issuances of Common Stock | Date of Issuance | Number of Shares of Common Stock Issued | Explanation |
|---|------------------|---|--|
| Minority stockholder of Encode Pharmaceuticals, Inc. | Dec. 2007 | 45,450 | Stock issued pursuant to a merger agreement with Encode Pharmaceuticals, Inc. related to the purchase of a license agreement with UCSD and two consulting agreements with UCSD clinicians for the development of DR Cysteamine, no proceeds were received for the issuance of this stock (2) |
| Thomas E. Daley, President of Raptor's subsidiary, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), as sole stockholder of Convivia, Inc., which has been dissolved | March 2008 | 23,312 | Stock issued pursuant to an asset purchase agreement with Convivia, Inc. based on the fulfillment of the development milestone of executing a manufacturing agreement within the first year anniversary of such asset purchase agreement, no proceeds were received for the issuance of this stock (2) |
| Third party consultant | May 2008 | 2,040 | Stock issued pursuant to a consulting agreement in lieu of cash compensation, no proceeds were received for the issuance of this stock (2) |
| Thomas E. Daley, President of Raptor's subsidiary, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), as sole stockholder of Convivia, Inc., which has been dissolved | October 2008 | 23,312 | Stock issued pursuant to an asset purchase agreement with Convivia, Inc. based on the fulfillment of the development milestone of completing a clinical study within the first year anniversary of such |

asset purchase
agreement, no proceeds
were received for the
issuance of this stock (2)

Total other common stock
issuances

1,000,227

- (1) Proceeds were used for working capital to fund operations
- (2) Common stock is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as a transaction by an issuer not involving a public offering. We relied on representations made available to us in determining that such exemptions were available. No underwriting discounts or commissions were paid by us in connection with the issuance of common stock.

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Other Raptor Common Stock Issuances

Raptor's Common Stock Issued Pursuant to Warrant Exercises

| Warrant Holder | Warrant Issue Date | Number of Warrants Exercised | Exercise Price | Expiration Date | Exercise Date | Shares Issued Upon Exercise | Proceeds Received |
|---|--------------------|------------------------------|----------------|-----------------|---------------|-----------------------------|-------------------|
| Icon Capital Ptrs. | 12/14/2007 | 7,890 | \$ 2.40 | 12/13/2015 | 10/8/2009 | 7,890 | \$ 0 |
| Octagon Capital Partners | 12/22/2009 | 18,750 | 2.45 | 6/22/2011 | 6/22/2010 | 18,750 | 45,938 |
| CNH Diversified Opportunities Master Account, L.P. | 12/22/2009 | 10,000 | 2.45 | 6/22/2011 | 7/13/2010 | 10,000 | 24,500 |
| CNH Diversified Opportunities Master Account, L.P. | 7/14/2010 | 20,000 | 2.45 | 6/22/2011 | 8/5/2010 | 20,000 | 49,000 |
| Daniel B. Scholefield and Thomas J. Scoville, TTE Charles B. Scoville, Jr. Trust U/A DTD 06/11/1965 | 8/21/2009 | 116,562 | 2.57 | 7/31/2011 | 8/20/2010 | 116,562 | 299,564 |
| VP Bank | 8/21/2009 | 116,562 | 2.57 | 7/31/2011 | 9/14/2010 | 116,562 | 299,564 |
| CNH Diversified Opportunities Master Account, L.P. | 8/6/2010 | 10,000 | 2.45 | 6/22/2011 | 10/18/2010 | 10,000 | 24,500 |
| Jason Kellogg | 12/22/2009 | 5,029 | 2.45 | 6/22/2011 | 11/2/2010 | 5,029 | 12,321 |
| Jason Kellogg | 12/22/2009 | 5,029 | 2.45 | 12/22/2014 | 11/2/2010 | 5,029 | 12,321 |
| Total warrant exercises | | 309,822 | | | | 309,822 | \$767,708 |

The table above reflects our common stock warrants exercised from September 29, 2009 to November 18, 2010. Except for Icon Capital Ptrs., all of these warrants were issued in connection with (i) Direct Offering, which common stock and shares of common stock underlying warrants issued pursuant to such offering were registered pursuant to our registration statement on Form S-3 declared effective by the SEC on December 18, 2009 and (ii) our August 2009 private placement of common stock and warrants in transactions exempt from registration pursuant to Section 4(2) of the Securities Act. In October 2009, we filed a post-2009 Merger Form S-3 registering unexercised warrants from our August 2009 private placement. RPC claimed an exemption from the registration requirements of the Securities Act for the issuance of its common stock underlying the warrants pursuant to Section 4(2) of the Securities Act because, among other things, the transactions did not involve a public offering, the investors were accredited investors and/or qualified institutional buyers and the investors had access to information about RPC and their investment.

| Other Issuances of Common Stock | Date of Issuance | Number of Shares of Common Stock Issued | Explanation |
|---|------------------|---|--|
| Thomas E. Daley, President of Raptor's subsidiary, Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), as sole stockholder of Convivia, Inc., which has been dissolved | July 2010 | 11,656 | Common stock issued pursuant to an asset purchase agreement with Convivia, Inc. based on the fulfillment of the execution of a development partnership agreement (1) |

- (1) Common stock issuance is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as a transaction by an issuer not involving a public offering. We relied on representations made available to us in determining that such exemptions were available. No underwriting discounts or commissions were paid by us in connection with the issuance of common stock.

Common Stock Issued to LPC Pursuant to Purchase Agreement

On April 16, 2010, we executed the LPC Purchase Agreement and the LPC Registration Rights Agreement with LPC. Under the LPC Purchase Agreement, we have the right to sell to LPC up to \$15,000,000 of our common stock at our option as described below.

Pursuant to the LPC Registration Rights Agreement, we filed a registration statement with the SEC covering the shares that have been issued or may be issued to LPC under the LPC Purchase Agreement, which was declared effective by the SEC on May 7, 2010. Over approximately 25 months after such effective date, we generally have the right to direct LPC to purchase up to \$15,000,000 of our common stock in amounts up to \$100,000 as often as every two business days under certain conditions. We can also accelerate the amount of our common stock to be purchased under certain circumstances. No sales of shares may occur at a purchase price below \$1.50 per share. The purchase price of the shares will be based on the market prices of our shares at the time of sale as computed under the LPC Purchase Agreement without any fixed discount. We may at any time in our sole discretion terminate the LPC Purchase Agreement without fee, penalty or cost upon one business day notice. We issued 145,033 shares of our common stock to LPC as a commitment fee for entering into the LPC Purchase Agreement, and we are obligated to issue up to 217,549 shares pro rata as LPC purchases up to \$15,000,000 of our common stock as directed by us.

Cumulatively, as of November 18, 2010, we have issued 2,680,315 shares to LPC consisting of 229,150 shares of initial and earned commitment fees and 2,451,165 shares sold pursuant to the LPC Purchase Agreement for aggregate gross proceeds of approximately \$5.8 million. The issuance of our common stock to LPC under the LPC Purchase Agreement is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act, as the transaction did not involve a public offering, LPC was an "accredited investor" under the Securities Act and LPC had access to information about us and its investment.

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Below are the details of shares sold or issued under the LPC Purchase Agreement to Lincoln Park Capital, LLC:

| Issuance Date | Number of Shares of Common Stock Issued |
|-------------------|---|
| April 16, 2010 | 145,033 |
| May 7, 2010 | 190,576 |
| May 11, 2010 | 188,169 |
| May 13, 2010 | 183,844 |
| May 17, 2010 | 173,923 |
| May 19, 2010 | 163,702 |
| May 24, 2010 | 149,002 |
| May 25, 2010 | 143,363 |
| May 27, 2010 | 133,614 |
| June 1, 2010 | 113,466 |
| June 3, 2010 | 99,326 |
| June 7, 2010 | 101,614 |
| June 9, 2010 | 104,129 |
| June 11, 2010 | 104,239 |
| June 15, 2010 | 104,129 |
| June 29, 2010 | 41,449 |
| July 2, 2010 | 40,975 |
| July 7, 2010 | 42,266 |
| July 9, 2010 | 39,960 |
| July 13, 2010 | 39,960 |
| July 15, 2010 | 40,512 |
| July 17, 2010 | 43,644 |
| November 11, 2010 | 99,830 |
| November 16, 2010 | 97,568 |
| November 18, 2010 | 96,022 |
| | 2,680,315 |

2010 Private Placement

On August 12, 2010, we closed a private placement of 4,897,614 units of our securities, each unit comprised of one share of our common stock and one warrant to purchase one share of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. As the placement agent for the 2010 Private Placement, JMP Securities LLC was issued one warrant to purchase 97,952 shares of our common stock, paid a cash commission of \$978,911 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

The shares of our common stock, warrants and common stock underlying the warrants, or collectively, the Securities, offered and sold under the 2010 Private Placement Purchase Agreements to the 2010 Private Placement Investors

were offered and sold in reliance upon exemptions from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as transactions by an issuer not involving a public offering. The 2010 Private Placement Purchase Agreements contain representations to support our reasonable belief that the 2010 Private Placement Investors had access to information concerning our

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operations and financial condition, the 2010 Private Placement Investors did not acquire the Securities with a view to the distribution thereof in the absence of an effective registration statement or an applicable exemption from registration, and that the 2010 Private Placement Investors are “accredited investors” (as defined by Rule 501 under the Securities Act). We relied upon the representations made by the 2010 Private Placement Investors pursuant to the 2010 Private Placement Purchase Agreement in determining that such exemptions were available.

| August 2010 private placement security holder | Number of shares of common stock | Number of shares of common stock issuable pursuant to warrants issued |
|--|----------------------------------|---|
| Deerfield Special Situations Fund, LP | 741,464 | 741,464 |
| Deerfield Special Situations Fund International, Limited | 1,209,756 | 1,209,756 |
| Epworth – Ayer Capital | 37,087 | 37,087 |
| Ayer Capital Partners Kestrel Fund, LP | 13,511 | 13,511 |
| Ayer Capital Partners Master Fund, L.P. | 372,166 | 372,166 |
| Redmile Capital Fund, LP | 206,053 | 206,053 |
| Redmile Capital Offshore Fund, Ltd. | 163,575 | 163,575 |
| Redmile Capital Offshore Fund II, Ltd. | 161,672 | 161,672 |
| Redmile Ventures, Ltd. | 8,700 | 8,700 |
| Iroquois Master Fund Ltd. | 373,984 | 373,984 |
| Straus Partners, L.P. | 250,000 | 250,000 |
| Straus Healthcare Partners, L.P. | 250,000 | 250,000 |
| Capital Ventures International | 325,202 | 325,202 |
| BBT Fund, L.P. | 117,920 | 117,920 |
| SRI Fund, L.P. | 60,160 | 60,160 |
| CAP Fund, L.P. | 62,570 | 62,570 |
| Investor Company f/b/o Rosalind Capital Partners L.P. | 162,602 | 162,602 |
| Lincoln Park Capital Fund, LLC | 195,122 | 195,122 |
| Cummings Bay Capital | 67,211 | 67,211 |
| Geneve Corp | 37,557 | 37,557 |
| Dafna LifeScience Select Ltd | 35,123 | 35,123 |
| Dafna LifeScience Market Neutral Ltd | 11,707 | 11,707 |
| Dafna LifeScience Ltd | 18,212 | 18,212 |
| Robert F. Carey III Trust DTD 4/24/01 | 16,260 | 16,260 |
| JMP Securities LLC | | 97,952 |
| Total securities issued in August 2010 private placement | 4,897,614 | 4,995,566 |

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Other Issuances of RPC Warrants

| Other Issuances of Warrants | Date of Issuance | Number of Warrants to Purchase One Share of Common Stock | Explanation |
|--|------------------|--|--|
| Flower Ventures | Dec. 2007 | 233,309 | Warrants issued pursuant to a merger agreement with Encode Pharmaceuticals, Inc. at an exercise price of \$2.87 per share and expires eight years from date of issuance and contains a cashless exercise feature (1) |
| Minority stockholder of Encode Pharmaceuticals, Inc. | Dec. 2007 | 22,725 | Warrants issued pursuant to a merger agreement with Encode Pharmaceuticals, Inc. at an exercise price of \$2.40 per share and expires eight years from date of issuance and contains a cashless exercise feature (1) |
| Total other issuances of warrants | | 256,034 | |

(1) Warrant is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as a transaction by an issuer not involving a public offering. We relied on representations made available to us in determining that such exemptions were available. No underwriting discounts or commissions were paid by us in connection with the issuance of common stock.

TorreyPines Therapeutics, Inc.'s Common Stock Issued Prior to 2009 Merger

Issuance of TorreyPines Therapeutics, Inc. Common Stock Pursuant to Stock Purchase Agreement with Eli Lilly & Company

On November 21, 2008, TPTX, Inc., a wholly-owned subsidiary of TorreyPines Therapeutics, Inc. entered into a Stock Purchase Agreement with Eli Lilly & Company, pursuant to which TorreyPines Therapeutics, Inc. issued 11,764 shares of TorreyPines Therapeutics, Inc. Common Stock in exchange for a reduction in the royalties payable to Eli Lilly & Company on net sales of NGX426 and tezampanel, should either or both gain regulatory approval, as well as a delay in certain milestone payments due to Eli Lilly & Company related to the clinical developments of NGX426. The shares were issued on November 21, 2008 upon the satisfaction of certain conditions.

TorreyPines Therapeutics, Inc. claimed an exemption from the registration requirements of the Securities Act for the issuance of its common stock issued pursuant to the Stock Purchase Agreement with Eli Lilly & Company pursuant to Section 4(2) of the Securities Act because, among other things, the transaction did not involve a public offering, Eli Lilly & Company was an accredited investors and/or qualified institutional buyer and Eli Lilly & Company had access to information about TorreyPines Therapeutics, Inc. and its investment.

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| Securityholder | Issuance Date | Number of Shares of Common Stock Issued |
|---------------------|-------------------|--|
| Eli Lilly & Company | November 21, 2008 | 11,764 |

Issuances of TorreyPines Therapeutics, Inc. Warrants

| Other Issuances of Warrants | Date of Issuance | Number of Shares of Common Stock Issuable upon Exercise of Warrant | Explanation |
|-----------------------------|---------------------|--|---|
| Comerica Bank | June 2008 | 4,637 | Warrant issued pursuant to Loan Security Agreement with Comerica Bank at an exercise price of \$23.29 per share and expire June 11, 2013 (1) |

(1) Warrant is exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act and Rule 506 of Regulation D promulgated thereunder, as a transaction by an issuer not involving a public offering. We relied on representations made available to us in determining that such exemptions were available. No underwriting discounts or commissions were paid by us in connection with the issuance of common stock.

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Item 16. Exhibits and Financial Statement Schedules

(a) Exhibits

The following exhibits are filed as part of, or incorporated by reference into this registration statement:

Exhibit Index

- | | |
|-----|--|
| 2.1 | Agreement and Plan of Merger and Reorganization, dated as of June 7, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Registration Statement No. 333-136018 filed on July 25, 2006). |
| 2.2 | Amendment No. 1 to Agreement and Plan of Merger and Reorganization, dated as of August 25, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Amendment No. 1 to Registration Statement No. 333-136018 filed on August 25, 2006). |
| 2.3 | Agreement and Plan of Merger and Reorganization, dated July 27, 2009, by and among Raptor Pharmaceuticals Corp., TorreyPines Therapeutics, Inc., a Delaware corporation, and ECP Acquisition, Inc., a Delaware corporation (incorporated by reference to Exhibit 2.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009). |
| 2.4 | Form of Voting Agreement between TorreyPines Therapeutics, Inc. and certain stockholders of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 99.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009). |
| 2.5 | Form of Voting Agreement between Raptor Pharmaceuticals Corp. and certain stockholders of TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 99.2 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009). |
| 3.1 | Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.2 | Bylaws of the Registrant (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.3 | Certificate of Amendment filed with the Secretary of State of the State of Nevada effecting an 8-for-1 reverse stock of the Registrant's common stock and changing the name of the Registrant from Axonyx Inc. to TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 3.3 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.4 | Articles of Conversion filed with the Secretary of State of the State of Nevada changing the state of incorporation of the Registrant (incorporated by reference to Exhibit 3.4 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.5 | Certificate of Conversion filed with the Secretary of State of the State of Delaware (incorporated by reference to Exhibit 3.5 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.6 | |

- Amendment to Bylaws of the Registrant (incorporated by reference to Exhibit 3.6 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 3.7 Charter Amendment for TorreyPines (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 3.8 Certificate of Merger between Raptor Pharmaceuticals Corp., ECP Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 4.1 Specimen common stock certificate of the Registrant (incorporated by reference to Exhibit 4.7 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 4.2 Form of Warrant to Purchase Common Stock issued to previous holders of TPTX, Inc. redeemable convertible preferred stock in connection with the business combination between TorreyPines Therapeutics, Inc. and Axonyx, Inc. (incorporated by reference to Exhibit 4.2 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.3 Form of Registration Rights Agreement 1999 (incorporated by reference to Exhibit 4.4 to the Registrant's Annual Report on Form 10-KSB, filed on March 13, 2000).
- 4.4 Registration Rights Agreement dated as of January 8, 2004 between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on January 12, 2004).
- 4.5 Registration Rights Agreement dated as of May 3, 2004, between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on May 5, 2004).
- 4.6 Form of Warrant issued to Comerica Bank on July 1, 2003 (incorporated by reference to Exhibit 4.14 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).

- 4.7 Form of Warrant issued to Silicon Valley Bank on December 8, 2000 (incorporated by reference to Exhibit 4.15 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.8 Form of Warrant issued to Oxford Financial and Silicon Valley Bank on September 27, 2005 (incorporated by reference to Exhibit 4.16 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.9 Rights Agreement, dated as of May 13, 2005, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 99.2 to the Registrant's Current Report on Form 8-K, filed on May 16, 2005).
- 4.10 Amendment to Rights Agreement, dated as of June 7, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K, filed on June 12, 2006).
- 4.11 Form of Warrant issued to Comerica Bank on June 11, 2008 (incorporated by reference to Exhibit 4.1 to the Registrant's Report on Form 8-K, filed on June 17, 2008).
- 4.12 Amendment to Rights Agreement, dated as of October 3, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.19 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.13 Rights Agreement Amendment, dated as of July 27, 2009, to the Rights Agreement dated May 13, 2005 between TorreyPines and American Stock Transfer and Trust Company (replacing The Nevada Agency and Trust Company) (incorporated by reference to Exhibit 2.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 4.14 Amendment to Rights Agreement, dated August 6, 2010, by and between the Registrant and American Stock Transfer & Trust Company, LLC (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on August 10, 2010).
- 4.15 * Warrant to purchase common stock dated December 14, 2007 issued to Flower Ventures, LLC (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A, filed on April 15, 2008).
- 4.16 * Warrant Agreement Amendment, dated December 17, 2009, between the Registrant and Flower Ventures, LLC (incorporated by reference to Exhibit 4.15 to Registrant's Quarterly Report on Form 10QSB, filed on April 9, 2010).
- 4.17 * Warrant to purchase common stock dated December 14, 2007 issued to ICON Partners, LP (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A, filed on April 15, 2008).
- 4.18 * Form of Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on May 22, 2008).
- 4.19 * Form of Placement Agent Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K/A, filed on May 28, 2008).
- 4.20 * Form of Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on August 25, 2009).
- 4.21 * Form of Placement Agent Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on August 25, 2009).
- 4.22 Form of Senior Debt Indenture of the Registrant (incorporated by reference to Exhibit 4.10 to the Registrant's Registration Statement on Form S-3, filed on October 7, 2009).

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- 4.23 Form of Subordinated Debt Indenture of the Registrant (incorporated by reference to Exhibit 4.11 to the Registrant's Registration Statement on Form S-3, filed on October 7, 2009).
- 4.24 Form of Investor Warrants (incorporated by reference to Exhibit 4.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 4.25 Form of Investor Warrants (incorporated by reference to Exhibit 4.1 on Registrant's Current Report on Form 8-K filed on August 10, 2010).
- 4.26 Placement Agent Warrant (incorporated by reference to Exhibit 4.2 on Registrant's Current Report on Form 8-K filed on August 13, 2010).
- 4.27 Reference is made to Exhibits 3.1 through 3.8.
- 5.1† Opinion of Paul, Hastings, Janofsky & Walker LLP
- 10.1# TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on October 4, 2006).
- 10.2# Form of Stock Option Agreement under TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.9 to the Registrant's Current Report on Form 8-K, filed on October 14, 2006).

- 10.3** Development and License Agreement between TPTX, Inc. (formerly Neurogenetics, Inc.) and Eli Lilly and the Registrant, effective as of April 21, 2003 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.4** Research and License Agreement by and between TPTX, Inc. and Life Science Research Israel Ltd. dated as of May 10, 2004 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.5** License Agreement by and between TPTX, Inc. and University of Iowa Research Foundation dated as of May 10, 2006 (incorporated by reference to Exhibit 10.5 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.6 Lease Agreement by and between TPTX, Inc. and Slough TPSP LLC dated as of July 18, 2005, which became effective February 10, 2006 (incorporated by reference to Exhibit 10.10 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.7 Form of Indemnity Agreement (incorporated by reference to Exhibit 10.13 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.8# Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated December 14, 2006 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on December 20, 2006).
- 10.9# Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated December 14, 2006 (incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K, filed on December 20, 2006).
- 10.10# Form of Restricted Stock Unit Award Agreement under TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.17 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 10.11# Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Christopher Starr dated May 1, 2006 (incorporated by reference to Exhibit 10.5 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on May 26, 2006).
- 10.12# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Christopher Starr dated January 1, 2009 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.13# Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Todd Zankel dated May 15, 2006 (incorporated by reference to Exhibit 10.6 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on May 26, 2006).
- 10.14# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Todd Zankel dated January 1, 2009 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.15# Employment Agreement between Raptor Pharmaceuticals Corp. and Ms. Kim Tsuchimoto dated May 1, 2006 (incorporated by reference to Exhibit 10.7 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on May 26, 2006).
- 10.16# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Ms. Kim Tsuchimoto dated January 1, 2009 (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.17# Employment Agreement between Raptor Therapeutics Inc. and Thomas E. Daley dated September 7, 2007 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10-QSB filed on January 14, 2008).
- 10.18# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Thomas E. Daley dated January 1, 2009 (incorporated by reference to Exhibit 10.4 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.19#

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Offer Letter from Raptor Therapeutics Inc. dated April 8, 2009 for Dr. Patrice Rioux (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on April 14, 2008).

- 10.20# 2006 Equity Incentive Plan of Raptor Pharmaceuticals Corp., as amended (incorporated by reference to Exhibit 4.3 to Raptor Pharmaceuticals Corp.'s Registration Statement on Form S-8 filed on February 28, 2007).
- 10.21# 2008 Plan Amendment to 2006 Equity Incentive Plan of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 10.5 to Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K/A filed on December 23, 2008).
- 10.22 Asset Purchase Agreement between Raptor Therapeutics, Inc., Raptor Pharmaceuticals Corp. and Convivia, Inc. dated October 17, 2007 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on January 14, 2008).

- 10.23 Merger agreement between Raptor Therapeutics, Inc., Raptor Pharmaceuticals Corp. and Encode Pharmaceuticals, Inc. dated December 14, 2007 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.24**Pharmaceutical development services agreement between Raptor Therapeutics Inc. and Patheon Pharmaceuticals Inc. dated January 7, 2008 (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.25**License agreement between Raptor Therapeutics Inc. and Regents of the University of California dated October 31, 2007 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.26**Amendment No. 1 to License agreement between Raptor Therapeutics Inc. and Regents of the University of California dated February 29, 2008 (incorporated by reference to Exhibit 10.4 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.27 Securities Purchase Agreement, dated as of May 21, 2008, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on July 9, 2008).
- 10.28 Amendment to Securities Purchase Agreement, dated as of May 21, 2008, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on July 9, 2008).
- 10.29**Collaboration and License Agreement, effective June 3, 2009, among Hoffmann-La Roche Ltd., Hoffmann-La Roche Inc. and the Registrant (incorporated by reference to Exhibit 10.19 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009)
- 10.30 First Amendment dated January 7, 2009 to Lease by and between TorreyPines Therapeutics, Inc. and HCP TPSP LLC dated July 18, 2005 (incorporated by reference to Exhibit 10.15 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.31**Amendment dated November 21, 2008 to Development and License Agreement by and between TPTX, Inc. and Eli Lilly and the Registrant, effective as of April 21, 2003 (incorporated by reference to Exhibit 10.16 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.32# Amended and Restated Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated September 1, 2008 (incorporated by reference to Exhibit 10.17 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.33# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated September 1, 2008 (incorporated by reference to Exhibit 10.18 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.34# Amended and Restated Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.19 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.35# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.20 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.36# Amended and Restated Employment Agreement by and between Paul Schneider and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to

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- Exhibit 10.21 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.37# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Paul Schneider and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.22 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.38** Supply Agreement, effective July 20, 2009, between Raptor Therapeutics Inc. and Mylan Pharmaceutical Inc. (incorporated by reference to Exhibit 10.20 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009).
- 10.39# Second Amended and Restated Employment by and between Evelyn Graham and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 10.40# Second Amended and Restated Employment by and between Craig Johnson and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 10.41# Second Amended and Restated Employment by and between Paul Schneider and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).

- 10.42 Securities Purchase Agreement, dated as of August 21, 2009, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.19 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009).
- 10.43 Raptor Form Indemnity Agreement dated on December 9, 2009 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on December 15, 2009).
- 10.44 Placement Agent Agreement by and between the Registrant and Ladenburg Thalmann & Co. Inc. dated December 17, 2009 (incorporated by reference to Exhibit 1.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 10.45 Securities Purchase Agreement, dated December 17, 2009, by and between the Registrant and the investors signatories thereto (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 10.46# Raptor Pharmaceutical Corp. 2010 Stock Incentive Plan (incorporated by reference to Appendix A to the Registrant's Revised Definitive Proxy Statement, filed on February 5, 2010).
- 10.47 Purchase Agreement, dated April 16, 2010, between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K, filed on April 22, 2010).
- 10.48 Registration Rights Agreement, dated April 16, 2010, between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.2 on Registrant's Current Report on Form 8-K, filed on April 22, 2010).
- 10.49# Form of Award Agreement under the Raptor Pharmaceutical Corp. 2010 Stock Incentive Plan (incorporated by reference to Exhibit 4.13 to the Registrant's Registration Statement on Form S-8 (File No. 33-166813), filed on May 14, 2010).
- 10.50 Securities Purchase Agreement, dated August 9, 2010, by and among the Registrant and the Investors signatories thereto (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K, filed on August 10, 2010).
- 10.51 Securities Purchase Agreement, dated August 9, 2010, by and among the Registrant and the Investor signatory thereto (incorporated by reference to Exhibit 10.2 of the Registrant's Current Report on Form 8-K filed on August 10, 2010).
- 10.52 Registration Rights Agreement, dated August 12, 2010, by and among the Registrant and the signatories thereto (incorporated by reference to Exhibit 10.3 of the Registrant's Current Report on Form 8-K, filed on August 13, 2010).
- 10.53## Manufacturing Services Agreement, dated as of November 15, 2010, by and between Patheon Pharmaceuticals Inc. and Raptor Therapeutics, Inc. (incorporated by reference to Exhibit 10.53 of the Registrant's Post-Effective Amendment No. 1 to the Registration Statement on Form S-1 filed on November 23, 2010 (File No. 333-168966)).
- 10.54## API Supply Agreement, dated November 15, 2010, by and between Raptor Therapeutics Inc. and Cambrex Profarmaco Milano (incorporated by reference to Exhibit 10.54 of the Registrant's Post-Effective Amendment No. 1 to the Registration Statement on Form S-1 filed on November 23, 2010 (File No. 333-168966)).
- 21.1 Subsidiaries of the Registrant (incorporated by reference to Exhibit 21.1 of the Registrant's Annual Report on Form 10-K, filed on November 22, 2010).
- 23.1† Consent of Burr Pilger Mayer, Inc. Independent Registered Public Accounting Firm to the Registrant
- 23.2† Consent of Paul, Hastings, Janofsky & Walker LLP (included in Exhibit 5.1)
- 24.1† Power of Attorney (included in the signature page hereto).

*

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The Raptor Pharmaceuticals Corp. warrants set forth in Exhibits 4.15 – 4.21 have been converted into warrants of the Registrant and the exercise price of such warrants and number of shares of common stock issuable thereunder have been converted as described in Item 1.01 (under the section titled, “Background”) of the Registrant’s Current Report on Form 8-K, filed on October 5, 2009.

- ** Certain information omitted pursuant to a request for confidential treatment filed separately with and granted by the SEC.
- # Indicates a management contract or compensatory plan or arrangement.
- ## Certain information omitted pursuant to a request for confidential treatment filed separately with the SEC.
- † Filed herewith.

Item 17. Undertakings

The undersigned registrant hereby undertakes:

(1) to file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) to include any prospectus required by Section 10(a)(3) of the Securities Act .

(ii) to reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of a prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the change in volume and price represents no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.

(iii) to include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

(2) that, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at the time shall be deemed to be the initial bona fide offering thereof.

(3) to remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability of the undersigned registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424 (§ 230.424 of this chapter);

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(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

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(5) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers, and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

(6) In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer, or controlling person of the registrant in the successful defense of any action, suit, or proceeding) is asserted by such director, officer, or controlling person connected with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

(7) That, for the purpose of determining liability under the Securities Act to any purchaser, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on 430B or other than prospectuses filed in reliance on Rule 430A shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration Statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this amendment to the registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Novato, State of California, on November 23, 2010.

RAPTOR PHARMACEUTICAL CORP.

By: /s/ Kim R. Tsuchimoto

Kim R. Tsuchimoto

Chief Financial Officer, Secretary and
Treasurer

(Principal Financial Officer and Principal
Accounting Officer

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Christopher M. Starr, Ph.D. and Kim R. Tsuchimoto, and each or any one of them, his or her true and lawful attorney-in-fact, with the power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including pre-effective amendments and post-effective amendments) to this registration statement, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his or her substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this amendment to the registration statement has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

| Signatures | Title | Date |
|----------------------------------|---|-------------------|
| /s/ Christopher M. Starr | Chief Executive Officer and Director (Principal Executive Officer) | November 23, 2010 |
| Christopher M. Starr, Ph.D. | | |
| /s/ Kim R. Tsuchimoto | Chief Financial Officer, Secretary and Treasurer (Principal Financial Officer and Principal Accounting Officer) | November 23, 2010 |
| Kim R. Tsuchimoto | | |
| /s/ Erich Sager | Director | November 23, 2010 |
| Erich Sager | | |
| /s/ Raymond W. Anderson | Director | November 23, 2010 |
| Raymond W. Anderson | | |
| /s/ Richard L. Franklin | Director | November 23, 2010 |
| Richard L. Franklin, M.D., Ph.D. | | |
| /s/ Llew Keltner | Director | November 23, 2010 |

Llew Keltner, M.D., Ph.D

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EXHIBIT INDEX

The following exhibits are filed as part of, or incorporated by reference into this Report:

Exhibit Index

- 2.1 Agreement and Plan of Merger and Reorganization, dated as of June 7, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Registration Statement No. 333-136018 filed on July 25, 2006).
- 2.2 Amendment No. 1 to Agreement and Plan of Merger and Reorganization, dated as of August 25, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Amendment No. 1 to Registration Statement No. 333-136018 filed on August 25, 2006).
- 2.3 Agreement and Plan of Merger and Reorganization, dated July 27, 2009, by and among Raptor Pharmaceuticals Corp., TorreyPines Therapeutics, Inc., a Delaware corporation, and ECP Acquisition, Inc., a Delaware corporation (incorporated by reference to Exhibit 2.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 2.4 Form of Voting Agreement between TorreyPines Therapeutics, Inc. and certain stockholders of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 99.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 2.5 Form of Voting Agreement between Raptor Pharmaceuticals Corp. and certain stockholders of TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 99.2 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 3.1 Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 3.2 Bylaws of the Registrant (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 3.3 Certificate of Amendment filed with the Secretary of State of the State of Nevada effecting an 8-for-1 reverse stock of the Registrant's common stock and changing the name of the Registrant from Axonyx Inc. to TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 3.3 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 3.4 Articles of Conversion filed with the Secretary of State of the State of Nevada changing the state of incorporation of the Registrant (incorporated by reference to Exhibit 3.4 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 3.5 Certificate of Conversion filed with the Secretary of State of the State of Delaware (incorporated by reference to Exhibit 3.5 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 3.6 Amendment to Bylaws of the Registrant (incorporated by reference to Exhibit 3.6 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).

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- 3.7 Charter Amendment for TorreyPines (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 3.8 Certificate of Merger between Raptor Pharmaceuticals Corp., ECP Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 4.1 Specimen common stock certificate of the Registrant (incorporated by reference to Exhibit 4.7 to the Registrant's Current Report on Form 8-K, filed on October 9, 2009).
- 4.2 Form of Warrant to Purchase Common Stock issued to previous holders of TPTX, Inc. redeemable convertible preferred stock in connection with the business combination between TorreyPines Therapeutics, Inc. and Axonyx, Inc. (incorporated by reference to Exhibit 4.2 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.3 Form of Registration Rights Agreement 1999 (incorporated by reference to Exhibit 4.4 to the Registrant's Annual Report on Form 10-KSB, filed on March 13, 2000).
- 4.4 Registration Rights Agreement dated as of January 8, 2004 between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on January 12, 2004).
- 4.5 Registration Rights Agreement dated as of May 3, 2004, between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on May 5, 2004).
- 4.6 Form of Warrant issued to Comerica Bank on July 1, 2003 (incorporated by reference to Exhibit 4.14 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.7 Form of Warrant issued to Silicon Valley Bank on December 8, 2000 (incorporated by reference to Exhibit 4.15 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
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- 4.8 Form of Warrant issued to Oxford Financial and Silicon Valley Bank on September 27, 2005 (incorporated by reference to Exhibit 4.16 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.9 Rights Agreement, dated as of May 13, 2005, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 99.2 to the Registrant's Current Report on Form 8-K, filed on May 16, 2005).
- 4.10 Amendment to Rights Agreement, dated as of June 7, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K, filed on June 12, 2006).
- 4.11 Form of Warrant issued to Comerica Bank on June 11, 2008 (incorporated by reference to Exhibit 4.1 to the Registrant's Report on Form 8-K, filed on June 17, 2008).
- 4.12 Amendment to Rights Agreement, dated as of October 3, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.19 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 4.13 Rights Agreement Amendment, dated as of July 27, 2009, to the Rights Agreement dated May 13, 2005 between TorreyPines and American Stock Transfer and Trust Company (replacing The Nevada Agency and Trust Company) (incorporated by reference to Exhibit 2.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 4.14 Amendment to Rights Agreement, dated August 6, 2010, by and between the Registrant and American Stock Transfer & Trust Company, LLC (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on August 10, 2010).
- 4.15 * Warrant to purchase common stock dated December 14, 2007 issued to Flower Ventures, LLC (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A, filed on April 15, 2008).
- 4.16 * Warrant Agreement Amendment, dated December 17, 2009, between the Registrant and Flower Ventures, LLC (incorporated by reference to Exhibit 4.15 to Registrant's Quarterly Report on Form 10QSB, filed on April 9, 2010).
- 4.17 * Warrant to purchase common stock dated December 14, 2007 issued to ICON Partners, LP (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A, filed on April 15, 2008).
- 4.18 * Form of Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on May 22, 2008).
- 4.19 * Form of Placement Agent Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K/A, filed on May 28, 2008).
- 4.20 * Form of Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on August 25, 2009).
- 4.21* Form of Placement Agent Warrant to purchase common stock of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 4.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on August 25, 2009).
- 4.22 Form of Senior Debt Indenture of the Registrant (incorporated by reference to Exhibit 4.10 to the Registrant's Registration Statement on Form S-3, filed on October 7, 2009).
- 4.23 Form of Subordinated Debt Indenture of the Registrant (incorporated by reference to Exhibit 4.11 to the Registrant's Registration Statement on Form S-3, filed on October 7, 2009).
- 4.24

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- Form of Investor Warrants (incorporated by reference to Exhibit 4.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 4.25 Form of Investor Warrants (incorporated by reference to Exhibit 4.1 on Registrant's Current Report on Form 8-K filed on August 10, 2010).
- 4.26 Placement Agent Warrant (incorporated by reference to Exhibit 4.2 on Registrant's Current Report on Form 8-K filed on August 13, 2010).
- 4.27 Reference is made to Exhibits 3.1 through 3.8.
- 5.1† Opinion of Paul, Hastings, Janofsky & Walker LLP
- 10.1# TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on October 4, 2006).
- 10.2# Form of Stock Option Agreement under TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.9 to the Registrant's Current Report on Form 8-K, filed on October 14, 2006).
- 10.3** Development and License Agreement between TPTX, Inc. (formerly Neurogenetics, Inc.) and Eli Lilly and the Registrant, effective as of April 21, 2003 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
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- 10.4** Research and License Agreement by and between TPTX, Inc. and Life Science Research Israel Ltd. dated as of May 10, 2004 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.5** License Agreement by and between TPTX, Inc. and University of Iowa Research Foundation dated as of May 10, 2006 (incorporated by reference to Exhibit 10.5 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.6 Lease Agreement by and between TPTX, Inc. and Slough TPSP LLC dated as of July 18, 2005, which became effective February 10, 2006 (incorporated by reference to Exhibit 10.10 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.7 Form of Indemnity Agreement (incorporated by reference to Exhibit 10.13 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).
- 10.8# Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated December 14, 2006 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on December 20, 2006).
- 10.9# Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated December 14, 2006 (incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K, filed on December 20, 2006).
- 10.10# Form of Restricted Stock Unit Award Agreement under TorreyPines Therapeutics, Inc. 2006 Equity Incentive Plan (incorporated by reference to Exhibit 10.17 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).
- 10.11# Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Christopher Starr dated May 1, 2006 (incorporated by reference to Exhibit 10.5 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on May 26, 2006).
- 10.12# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Christopher Starr dated January 1, 2009 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.13# Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Todd Zankel dated May 15, 2006 (incorporated by reference to Exhibit 10.6 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on May 26, 2006).
- 10.14# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Dr. Todd Zankel dated January 1, 2009 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.15# Employment Agreement between Raptor Pharmaceuticals Corp. and Ms. Kim Tsuchimoto dated May 1, 2006 (incorporated by reference to Exhibit 10.7 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on May 26, 2006).
- 10.16# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Ms. Kim Tsuchimoto dated January 1, 2009 (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.17# Employment Agreement between Raptor Therapeutics Inc. and Thomas E. Daley dated September 7, 2007 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10-QSB filed on January 14, 2008).
- 10.18# First Amendment to the Employment Agreement between Raptor Pharmaceuticals Corp. and Thomas E. Daley dated January 1, 2009 (incorporated by reference to Exhibit 10.4 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K, filed on January 5, 2009).
- 10.19# Offer Letter from Raptor Therapeutics Inc. dated April 8, 2009 for Dr. Patrice Rioux (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Current Report on Form 8-K filed on April 14, 2008).
- 10.20#

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2006 Equity Incentive Plan of Raptor Pharmaceuticals Corp., as amended (incorporated by reference to Exhibit 4.3 to Raptor Pharmaceuticals Corp.'s Registration Statement on Form S-8 filed on February 28, 2007).

- 10.21# 2008 Plan Amendment to 2006 Equity Incentive Plan of Raptor Pharmaceuticals Corp. (incorporated by reference to Exhibit 10.5 to Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K/A filed on December 23, 2008).
 - 10.22 Asset Purchase Agreement between Raptor Therapeutics, Inc., Raptor Pharmaceuticals Corp. and Convivia, Inc. dated October 17, 2007 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on January 14, 2008).
 - 10.23 Merger agreement between Raptor Therapeutics, Inc., Raptor Pharmaceuticals Corp. and Encode Pharmaceuticals, Inc. dated December 14, 2007 (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
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- 10.24**Pharmaceutical development services agreement between Raptor Therapeutics Inc. and Patheon Pharmaceuticals Inc. dated January 7, 2008 (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.25**License agreement between Raptor Therapeutics Inc. and Regents of the University of California dated October 31, 2007 (incorporated by reference to Exhibit 10.3 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.26**Amendment No. 1 to License agreement between Raptor Therapeutics Inc. and Regents of the University of California dated February 29, 2008 (incorporated by reference to Exhibit 10.4 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB/A filed on April 15, 2008).
- 10.27 Securities Purchase Agreement, dated as of May 21, 2008, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.1 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on July 9, 2008).
- 10.28 Amendment to Securities Purchase Agreement, dated as of May 21, 2008, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.2 to Raptor Pharmaceuticals Corp.'s Quarterly Report on Form 10QSB filed on July 9, 2008).
- 10.29**Collaboration and License Agreement, effective June 3, 2009, among Hoffmann-La Roche Ltd., Hoffmann-La Roche Inc. and the Registrant (incorporated by reference to Exhibit 10.19 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009)
- 10.30 First Amendment dated January 7, 2009 to Lease by and between TorreyPines Therapeutics, Inc. and HCP TPSP LLC dated July 18, 2005 (incorporated by reference to Exhibit 10.15 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.31**Amendment dated November 21, 2008 to Development and License Agreement by and between TPTX, Inc. and Eli Lilly and the Registrant, effective as of April 21, 2003 (incorporated by reference to Exhibit 10.16 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.32# Amended and Restated Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated September 1, 2008 (incorporated by reference to Exhibit 10.17 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.33# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Evelyn Graham and TorreyPines Therapeutics, Inc. dated September 1, 2008 (incorporated by reference to Exhibit 10.18 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.34# Amended and Restated Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.19 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.35# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Craig Johnson and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.20 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.36# Amended and Restated Employment Agreement by and between Paul Schneider and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.21 to the Registrant's Annual Report on Form 10-K, filed on March 27, 2009).
- 10.37# Amendment dated February 3, 2009 to Amended Employment Agreement by and between Paul Schneider and TorreyPines Therapeutics, Inc. dated November 12, 2008 (incorporated by reference to Exhibit 10.22 to the Registrant's Annual Report on Form 10-K, filed on March 27,

2009).

- 10.38** Supply Agreement, effective July 20, 2009, between Raptor Therapeutics Inc. and Mylan Pharmaceutical Inc. (incorporated by reference to Exhibit 10.20 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009).
- 10.39# Second Amended and Restated Employment by and between Evelyn Graham and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 10.40# Second Amended and Restated Employment by and between Craig Johnson and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 10.41# Second Amended and Restated Employment by and between Paul Schneider and TPTX, Inc. dated July 27, 2009 (incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K, filed on July 28, 2009).
- 10.42 Securities Purchase Agreement, dated as of August 21, 2009, by and among Raptor Pharmaceuticals Corp. and the investors listed on the signature pages thereto (incorporated by reference to Exhibit 10.19 on Raptor Pharmaceuticals Corp.'s Annual Report on Form 10-K filed on October 28, 2009).
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- 10.43 Raptor Form Indemnity Agreement dated on December 9, 2009 (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on December 15, 2009).
- 10.44 Placement Agent Agreement by and between the Registrant and Ladenburg Thalmann & Co. Inc. dated December 17, 2009 (incorporated by reference to Exhibit 1.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 10.45 Securities Purchase Agreement, dated December 17, 2009, by and between the Registrant and the investors signatories thereto (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K filed on December 18, 2009).
- 10.46# Raptor Pharmaceutical Corp. 2010 Stock Incentive Plan (incorporated by reference to Appendix A to the Registrant's Revised Definitive Proxy Statement, filed on February 5, 2010).
- 10.47 Purchase Agreement, dated April 16, 2010, between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K, filed on April 22, 2010).
- 10.48 Registration Rights Agreement, dated April 16, 2010, between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.2 on Registrant's Current Report on Form 8-K, filed on April 22, 2010).
- 10.49# Form of Award Agreement under the Raptor Pharmaceutical Corp. 2010 Stock Incentive Plan (incorporated by reference to Exhibit 4.13 to the Registrant's Registration Statement on Form S-8 (File No. 33-166813), filed on May 14, 2010).
- 10.50 Securities Purchase Agreement, dated August 9, 2010, by and among the Registrant and the Investors signatories thereto (incorporated by reference to Exhibit 10.1 on Registrant's Current Report on Form 8-K, filed on August 10, 2010).
- 10.51 Securities Purchase Agreement, dated August 9, 2010, by and among the Registrant and the Investor signatory thereto (incorporated by reference to Exhibit 10.2 of the Registrant's Current Report on Form 8-K filed on August 10, 2010).
- 10.52 Registration Rights Agreement, dated August 12, 2010, by and among the Registrant and the signatories thereto (incorporated by reference to Exhibit 10.3 of the Registrant's Current Report on Form 8-K, filed on August 13, 2010).
- 10.53## Manufacturing Services Agreement, dated as of November 15, 2010, by and between Patheon Pharmaceuticals Inc. and Raptor Therapeutics, Inc. (incorporated by reference to Exhibit 10.53 of the Registrant's Post-Effective Amendment No. 1 to the Registration Statement on Form S-1 filed on November 23, 2010 (File No. 333-168966)).
- 10.54## API Supply Agreement, dated November 15, 2010, by and between Raptor Therapeutics Inc. and Cambrex Profarmaco Milano (incorporated by reference to Exhibit 10.54 of the Registrant's Post-Effective Amendment No. 1 to the Registration Statement on Form S-1 filed on November 23, 2010 (File No. 333-168966)).
- 21.1 Subsidiaries of the Registrant (incorporated by reference to Exhibit 21.1 of the Registrant's Annual Report on Form 10-K, filed on November 22, 2010).
- 23.1† Consent of Burr Pilger Mayer, Inc. Independent Registered Public Accounting Firm to the Registrant
- 23.2† Consent of Paul, Hastings, Janofsky & Walker LLP (included in Exhibit 5.1)
- 24.1† Power of Attorney (included in the signature page hereto).
- * The Raptor Pharmaceuticals Corp. warrants set forth in Exhibits 4.15 – 4.21 have been converted into warrants of the Registrant and the exercise price of such warrants and number of shares of common stock issuable thereunder have been converted as described in Item 1.01 (under the section titled, "Background") of the Registrant's Current Report on Form 8-K, filed on October 5, 2009.

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- ** Certain information omitted pursuant to a request for confidential treatment filed separately with and granted by the SEC.
- # Indicates a management contract or compensatory plan or arrangement.
- ## Certain information omitted pursuant to a request for confidential treatment filed separately with the SEC
- † Filed herewith.