

TRANSGENOMIC INC
Form 10-Q
August 06, 2008
Table of Contents

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Quarterly Period Ended June 30, 2008

Or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number: 000-30975

TRANSGENOMIC, INC.

(Exact name of registrant as specified in its charter)

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Delaware
(State or other jurisdiction of
incorporation or organization)

911789357
(I.R.S. Employer
Identification No.)

12325 Emmet Street, Omaha, Nebraska
(Address of principal executive offices)

68164
(Zip Code)

(402) 452-5400

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months and (2) has been subject to such filing requirements for the past 90 days. Yes No

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 definition of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Securities Exchange Act of 1934. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities Exchange Act of 1934) Yes No

As of August 6, 2008, the number of shares of common stock outstanding was 49,189,672.

Table of Contents

TRANSGENOMIC, INC.

INDEX

| | Page No. |
|--|-----------------|
| PART I. <u>FINANCIAL INFORMATION</u> | 3 |
| Item 1. <u>Financial Statements</u> | 3 |
| <u>Condensed Consolidated Balance Sheets as of June 30, 2008 (Unaudited) and December 31, 2007 (Audited)</u> | 3 |
| <u>Unaudited Condensed Consolidated Statements of Operations for the Three and Six Months Ended June 30, 2008 and 2007</u> | 4 |
| <u>Unaudited Condensed Consolidated Statements of Stockholders' Equity for the Six Months Ended June 30, 2008</u> | 5 |
| <u>Unaudited Condensed Consolidated Statements of Cash Flows for the Six Months Ended June 30, 2008 and 2007</u> | 6 |
| <u>Notes to Condensed Consolidated Unaudited Financial Statements</u> | 7 |
| Item 2. <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u> | 16 |
| Item 4T. <u>Controls and Procedures</u> | 21 |
| PART II. <u>OTHER INFORMATION</u> | 22 |
| Item 1. <u>Legal Proceedings</u> | 22 |
| Item 1A. <u>Risk Factors</u> | 22 |
| Item 6. <u>Exhibits</u> | 22 |
| <u>Signatures</u> | 23 |

Table of Contents**PART I. FINANCIAL INFORMATION****Item 1. Financial Statements****TRANSGENOMIC, INC. AND SUBSIDIARIES****CONDENSED CONSOLIDATED BALANCE SHEETS****(Dollars in thousands except per share data)**

| | June 30, 2008 (unaudited) | December 31, 2007 |
|---|--|------------------------------------|
| ASSETS | | |
| CURRENT ASSETS: | | |
| Cash and cash equivalents | \$ 5,692 | \$ 5,723 |
| Accounts receivable (net of allowances for bad debts of \$501 and \$703, respectively) | 5,525 | 5,095 |
| Inventories | 4,617 | 4,586 |
| Prepaid expenses and other current assets | 633 | 759 |
| Total current assets | 16,467 | 16,163 |
| PROPERTY AND EQUIPMENT: | | |
| Equipment | 10,977 | 10,857 |
| Furniture and fixtures | 4,067 | 4,056 |
| | 15,044 | 14,913 |
| Less: accumulated depreciation | 13,694 | 13,334 |
| | 1,350 | 1,579 |
| OTHER ASSETS: | | |
| Goodwill | 638 | 638 |
| Other assets | 678 | 710 |
| | \$ 19,133 | \$ 19,090 |
| LIABILITIES AND STOCKHOLDERS EQUITY | | |
| CURRENT LIABILITIES: | | |
| Accounts payable | \$ 920 | \$ 1,245 |
| Other accrued expenses | 2,884 | 3,152 |
| Accrued compensation | 814 | 450 |
| Total current liabilities | 4,618 | 4,847 |
| Other long-term liabilities | 151 | 141 |
| Total liabilities | 4,769 | 4,988 |
| COMMITMENTS AND CONTINGENCIES | | |
| STOCKHOLDERS EQUITY: | | |
| Preferred stock, \$.01 par value, 15,000,000 shares authorized, none outstanding | | |
| Common stock, \$.01 par value, 100,000,000 shares authorized, 49,189,672 shares outstanding | 497 | 497 |

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| | | |
|--|-----------|-----------|
| Additional paid-in capital | 139,234 | 139,099 |
| Accumulated other comprehensive income | 2,177 | 2,274 |
| Accumulated deficit | (127,544) | (127,768) |
| Total stockholders' equity | 14,364 | 14,102 |
| | \$ 19,133 | \$ 19,090 |

See notes to unaudited condensed consolidated financial statements.

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS**

(Dollars in thousands except per share data)

| | Three Months Ended June 30, | | Six Months Ended June 30, | |
|---|--------------------------------|------------|------------------------------|------------|
| | 2008 | 2007 | 2008 | 2007 |
| NET SALES | \$ 6,246 | \$ 6,272 | \$ 12,501 | \$ 11,494 |
| COST OF GOODS SOLD | 2,507 | 2,859 | 5,122 | 5,373 |
| Gross profit | 3,739 | 3,413 | 7,379 | 6,121 |
| OPERATING EXPENSES: | | | | |
| Selling, general and administrative | 3,091 | 3,067 | 6,066 | 6,047 |
| Research and development | 560 | 492 | 1,132 | 1,550 |
| Restructuring costs | 8 | 624 | 8 | 624 |
| | 3,659 | 4,183 | 7,206 | 8,221 |
| INCOME (LOSS) FROM OPERATIONS | 80 | (770) | 173 | (2,100) |
| OTHER INCOME (EXPENSE): | | | | |
| Interest income, net of interest expense | 25 | 79 | 58 | 141 |
| Other, net | | | (1) | 4 |
| Gain on sale of investment | | 938 | | 938 |
| | 25 | 1,017 | 57 | 1,083 |
| INCOME (LOSS) BEFORE INCOME TAXES | 105 | 247 | 230 | (1,017) |
| INCOME TAX EXPENSE | 4 | 14 | 7 | 19 |
| INCOME (LOSS) FROM CONTINUING OPERATIONS | 101 | 233 | 223 | (1,036) |
| INCOME (LOSS) FROM DISCONTINUED OPERATIONS, NET OF TAX | | (7) | | 66 |
| NET INCOME (LOSS) | \$ 101 | \$ 226 | \$ 223 | \$ (970) |
| COMPREHENSIVE INCOME (LOSS) | 41 | 405 | 79 | (815) |
| BASIC AND DILUTED INCOME (LOSS) PER SHARE: | | | | |
| From continuing operations | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ (0.02) |
| From discontinued operations | | 0.00 | | 0.00 |
| | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ (0.02) |
| BASIC WEIGHTED AVERAGE SHARES OUTSTANDING | 49,189,672 | 49,189,672 | 49,189,672 | 49,189,672 |
| DILUTED WEIGHTED AVERAGE SHARES OUTSTANDING | 49,301,010 | 49,189,672 | 49,301,010 | 49,189,672 |

See notes to unaudited condensed consolidated financial statements.

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

Six Months Ended June 30, 2008

(Dollars in thousands except per share data)

| | Common Stock | | | | Accumulated | Total |
|---|-----------------------|--------------|----------------------------------|------------------------|---|-----------|
| | Outstanding Shares | Par Value | Additional Paid-in Capital | Accumulated Deficit | Other Comprehensive Income (Loss) | |
| Balance, January 1, 2008 | 49,189,672 | \$ 497 | \$ 139,099 | \$ (127,768) | \$ 2,274 | \$ 14,102 |
| Net income | | | | 223 | 223 | 223 |
| Other comprehensive income (loss): | | | | | | |
| Foreign currency translation adjustment, net of tax | | | | | (96) | (96) |
| Comprehensive income | | | | | 127 | |
| Non-cash stock-based compensation | | | 135 | | | 135 |
| Balance, June 30, 2008 | 49,189,672 | \$ 497 | \$ 139,234 | \$ (127,544) | \$ 2,177 | \$ 14,364 |

See notes to unaudited condensed consolidated financial statements.

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS**

(Dollars in thousands)

| | Six Months Ended June 30, | |
|--|--------------------------------------|-------------|
| | 2008 | 2007 |
| CASH FLOWS PROVIDED BY (USED IN) OPERATING ACTIVITIES: | | |
| Net income (loss) | \$ 223 | \$ (970) |
| Adjustments to reconcile net income (loss) to net cash flows provided by (used in) operating activities: | | |
| Depreciation and amortization | 342 | 742 |
| Non-cash, stock based compensation | 135 | 46 |
| (Gain) Loss on sale of investment and assets | 12 | (1,034) |
| Changes in operating assets and liabilities: | | |
| Accounts receivable | (381) | 149 |
| Inventories | (14) | (567) |
| Prepaid expenses and other current assets | 129 | (28) |
| Accounts payable | (330) | (216) |
| Accrued expenses and accrued compensation | 70 | 314 |
| Other long term liabilities | 7 | |
| Net cash flows provided by (used in) operating activities | 193 | (1,564) |
| CASH FLOWS PROVIDED BY (USED IN) INVESTING ACTIVITIES: | | |
| Purchase of property and equipment | (93) | (181) |
| Change in other assets | (38) | (119) |
| Proceeds from asset sales | | 3,872 |
| Net cash flows provided by (used in) investing activities | (131) | 3,572 |
| EFFECT OF FOREIGN CURRENCY EXCHANGE RATE CHANGES ON CASH | (93) | 7 |
| NET CHANGE IN CASH AND CASH EQUIVALENTS | (31) | 2,015 |
| CASH AND CASH EQUIVALENTS AT BEGINNING OF YEAR | 5,723 | 5,868 |
| CASH AND CASH EQUIVALENTS AT END OF PERIOD | \$ 5,692 | \$ 7,883 |
| SUPPLEMENTAL CASH FLOW INFORMATION | | |
| Cash paid during the period for: | | |
| Interest | \$ | \$ 5 |
| Income taxes, net | 13 | 19 |

See notes to unaudited condensed consolidated financial statements.

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Six Months Ended June 30, 2008 and 2007

A. BUSINESS DESCRIPTION

Business Description.

Transgenomic, Inc. provides innovative products for the purification and analysis of nucleic acids used in the life sciences industry for research focused on molecular genetics and diagnostics. We also provide genetic variation analytical services to the medical research, clinical and pharmaceutical markets. Net sales are categorized as instrument related and laboratory services.

Instrument Related Business:

Bioinstruments. Our flagship product is the WAVE[®] System which has broad applicability to genetic variation detection in both molecular genetic research and molecular diagnostics. There is a worldwide installed base of over 1,425 WAVE Systems as of June 30, 2008. We also distribute bioinstruments produced by other manufacturers (OEM Equipment) through our sales and distribution network. Service contracts to maintain installed systems are sold and supported by technical support personnel.

Bioconsumables. The installed WAVE base and some third-party installed platforms generate a demand for consumables that are required for the system's continued operation. We develop, manufacture and sell these products. In addition, we manufacture and sell consumable products that can be used on multiple, independent platforms. These products include SURVEYOR[®] Nuclease and a range of HPLC separation columns.

Laboratory Services:

Molecular Clinical Reference Laboratory. The Molecular Clinical Reference Laboratory specializes in mitochondrial and molecular diagnostic testing including genetic testing for oncology, hematology and inherited disorders. Located in Omaha, Nebraska, the clinical laboratory operates in a Good Laboratory Practices compliant environment and is certified under the Clinical Laboratory Improvement Amendment.

Pharmacogenomics Research Services. Pharmacogenomics Research Services is a Contract Research Organization located in Gaithersburg, Maryland. It specializes in pharmacogenomic, biomarker and mutation discovery research serving the pharmaceutical and biomedical industries world-wide for disease research, drug and diagnostic development and clinical trial support.

Historically, we operated a segment (the Nucleic Acids operating segment) that developed, manufactured and marketed chemical building blocks for nucleic acid synthesis. In the fourth quarter of 2005, we implemented a plan to exit the Nucleic Acids operating segment and during the three months ended March 31, 2007, we completed the sale of the remaining assets associated with this segment. Accordingly, the assets and results of the Nucleic Acids operating segment are reflected as discontinued operations for all periods presented in this filing.

Management believes existing sources of liquidity, including cash and cash equivalents of \$5.7 million, are sufficient to meet expected cash needs during 2008. Our business consolidation efforts have helped control our operating costs, however, we have added sales and marketing costs in an effort to drive increased sales. In future periods, there is no assurance that we will be able to increase net sales or further reduce expenses and, accordingly, we may not have sufficient sources of liquidity to continue operations indefinitely.

B. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Principles of Consolidation.

The consolidated financial statements include the accounts of Transgenomic, Inc. and its wholly-owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

Use of Estimates.

The preparation of consolidated financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of net sales and expenses during the reporting period. In addition, estimates and assumptions associated with the determination of the fair value of certain assets and related impairments and the determination of goodwill impairments require considerable judgment by management. Actual results could differ from the estimates and assumptions used in preparing these financial statements.

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****Six Months Ended June 30, 2008 and 2007***Basis of Presentation.*

The consolidated balance sheet as of December 31, 2007 was derived from our audited balance sheet as of that date. The accompanying consolidated financial statements as of and for the three and six months ended June 30, 2008 and 2007 are unaudited and reflect all adjustments (consisting only of normal recurring adjustments) which are, in the opinion of management, necessary for a fair presentation of the financial position and operating results for the interim periods. These unaudited consolidated financial statements and notes should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2007 contained in our Annual Report on Form 10-K. The results of operations for the interim periods presented are not necessarily indicative of the results for the entire year.

Cash and Cash Equivalents.

Cash and cash equivalents include cash and investments with original maturities at acquisition of three months or less. Such investments presently consist of only temporary overnight investments.

Accounts Receivable.

Accounts receivable are shown net of allowance for doubtful accounts. The following is a summary of activity for the allowance for doubtful accounts during the three and six months ended June 30, 2008 and 2007:

| | Dollars in Thousands Three Months Ended June 30, | | Dollars in Thousands Six Months Ended June 30, | |
|--------------------------|--|--------|--|--------|
| | 2008 | 2007 | 2008 | 2007 |
| Beginning balance | \$ 372 | \$ 420 | \$ 703 | \$ 444 |
| Charges to income | 129 | 57 | 165 | 33 |
| Deductions from reserves | | (1) | (367) | (1) |
| Ending balance | \$ 501 | \$ 476 | \$ 501 | \$ 476 |

While payment terms are generally 30 days, we have also provided extended payment terms of up to 90 days in certain cases. We operate globally and some of the international payment terms may be greater than 90 days. We review accounts receivable on a quarterly basis and adjust our bad debt reserve accordingly.

Inventories.

Inventories are stated at the lower of cost or market. Cost is computed using standard costs for finished goods and average or latest actual cost for raw materials and work in process.

Property and Equipment.

Property and equipment are carried at cost. Depreciation is computed by the straight-line method over the estimated useful lives of the related assets as follows:

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| | |
|------------------------------------|---------------|
| Leasehold improvements | 2 to 10 years |
| Furniture and fixtures | 5 to 7 years |
| Production equipment | 5 to 7 years |
| Computer equipment | 3 to 5 years |
| Research and development equipment | 3 to 5 years |
| Demonstration equipment | 3 to 5 years |

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Six Months Ended June 30, 2008 and 2007

Depreciation and amortization during the three months ended June 30, 2008 and 2007, respectively, included \$0.2 million, for each period related to depreciation of property and equipment. Depreciation and amortization during the six months ended June 30, 2008 and 2007, respectively, included \$0.3 million and \$0.5 million, respectively, related to depreciation of property and equipment.

Goodwill.

Goodwill is not amortized, but is tested for impairment annually. We perform this impairment analysis during the fourth quarter of each year. Impairment occurs when the carrying value is determined to be not recoverable thereby causing the fair value of the goodwill to exceed the carrying value. If impaired, the asset's carrying value is reduced to its fair value.

Other Assets.

Other assets include intellectual property, patents, other intangible assets, and other long-term assets.

Intellectual Property. Initial costs paid to license intellectual property from independent third parties are capitalized and amortized using the straight-line method over the license period. Ongoing royalties related to such licenses are expensed as incurred.

Patents. We capitalize legal costs, filing fees and other expenses associated with obtaining patents on new discoveries and amortize these costs using the straight-line method over the shorter of the economic life or the legal life of the patent.

Other Intangible Assets. Identifiable intangible assets with definite lives are amortized over their estimated useful lives.

All of these assets are treated as long-lived assets for purposes of SFAS No. 144, which provides that long-lived assets will be tested for impairment on an annual basis. We review the carrying value of our long-lived assets during the fourth quarter of each year to assess whether events or changes in circumstances indicate the carrying amount of these assets may be impaired.

Stock Based Compensation.

All stock options awarded to date have exercise prices equal to the market price of our common stock on the date of grant and have ten-year contractual terms. Unvested options as of June 30, 2008 had vesting periods of three years from date of grant. None of the stock options outstanding at June 30, 2008 are subject to performance or market-based vesting conditions.

We measure and recognize compensation expense for all stock-based awards made to employees and directors, including stock options based on the calculated fair value of the awards as measured at the grant date and is expensed ratably over the service period of the awards (generally the vesting period). During the six months ended June 30, 2008, we recorded compensation expense of \$0.1 million within the general administrative expense related to the vesting of 1,535,000 options. During the six months ended June 30, 2007, we recorded compensation expenses of less than \$0.1 million related to the vesting of 685,000 options. As of June 30, 2008, there was \$0.6 million of unrecognized compensation expense related to unvested stock options, which is expected to be recognized over a weighted average period of nearly three years.

The fair value of the options issued during the quarters ended June 30, 2008 and 2007 was estimated on their respective grant dates using the Black-Scholes option pricing model. The Black-Scholes model was used with the following assumptions: risk-free interest rates of 3.99% to 5.08%, based on the U.S. Treasury yield in effect at the time of grant; dividend yields of zero percent; expected lives of 2 to 10 years, based on historical exercise activity behavior; and volatility of 80.03% and 89.14% based on the historical volatility of our stock over a time that is consistent with the expected life of the option. A small group of senior executives hold the majority of the stock options and are expected to hold the options until they are vested. Therefore, no forfeitures were assumed.

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Income Taxes.

Deferred tax assets and liabilities are determined based on the differences between the financial reporting and tax basis of assets and liabilities at each balance sheet date using tax rates expected to be in effect in the year the differences are expected to reverse. Deferred tax assets are reduced by a valuation allowance to the extent that it is more likely than not that they will not be realized.

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Six Months Ended June 30, 2008 and 2007

Revenue Recognition.

Revenue (referred to as net sales) on the sales of products is recognized in accordance with the terms of the sales arrangement. Such recognition is based on receipt of an unconditional customer order and transfer of title and risk of ownership to the customer upon shipment of the product under a purchase order. Our sales terms do not provide for the right of return unless the product is damaged or defective. Net sales from certain services associated with the analytical instruments, to be performed subsequent to shipment of the products, is deferred and recognized when the services are provided. Such services, mainly limited to installation and training services that are not essential to the functionality of the instruments, typically are performed in a timely manner subsequent to shipment of the instrument. We also enter into various service contracts that cover installed instruments. These contracts cover specific time periods and net sales associated with these contracts are deferred and recognized over the service period. At June 30, 2008 and 2007, deferred revenue, mainly associated with our service contracts, included in the balance sheet in other accrued expenses, was approximately \$1.9 million and \$1.6 million, respectively.

Revenue from our Molecular Clinical Reference Laboratory is recognized on an individual test basis and takes place when the test report is completed, reviewed and sent to the client. In our Pharmacogenomics Research Services Group, we recognize revenue based on a proportionate performance measurement for each project. At June 30, 2008 and 2007, deferred revenue associated with the pharmacogenomics research projects included in the balance sheet in other accrued expenses, was less than \$0.1 million for each period.

Taxes collected from customers and remitted to government agencies for specific revenue producing transactions are recorded net with no effect on the income statement.

Research and Development.

Research and development costs are charged to expense when incurred.

Translation of Foreign Currency.

Financial statements of subsidiaries outside the U.S. are measured using the local currency as the functional currency. The adjustments to translate those amounts into U.S. dollars are accumulated in a separate account in stockholders' equity and are included in accumulated other comprehensive income. Foreign currency translation gains or losses resulting from changes in currency exchange rates are included in the determination of net income. Foreign currency translation adjustments from continuing operations increased net income by \$0.3 million and \$0.5 million during the three and six months ended June 30, 2008, respectively. Foreign currency translation adjustments from continuing operations increased net loss by \$0.2 million and \$0.3 million during the three and six months ended June 30, 2007, respectively.

Comprehensive Income.

Accumulated other comprehensive income at June 30, 2008 and December 31, 2007 consisted of foreign currency translation adjustments, net of applicable tax. We deem our foreign investments to be permanent in nature and do not provide for taxes on currency translation adjustments arising from converting investments in a foreign currency to U.S. dollars.

Earnings Per Share.

Basic earnings per share is calculated based on the weighted average number of common shares outstanding during each period. Diluted earnings per share include shares issuable upon exercise of outstanding stock options, warrants or conversion rights that have exercise or conversion prices below the market value of our common stock. At June 30, 2008, there were outstanding options, warrants and conversion rights pertaining to 12,031,704 shares of our common stock of which options to acquire 111,338 shares were included in the calculation of diluted earnings per share. At June 30, 2007, there were outstanding options, warrants and conversion rights pertaining to 12,175,141 shares of our common stock all of which were excluded from the computation of diluted earnings per share because the effect would be anti-dilutive due

to the net loss from continuing operations in that period.

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Six Months Ended June 30, 2008 and 2007

Recently Issued Accounting Pronouncements.

In September 2006, the FASB issued Statement No. 157, *Fair Value Measurement* (FAS 157). While this Statement does not require new fair value measurements, it provides guidance on applying fair value and expands required disclosures. SFAS 157 is effective as of January 1, 2008 for financial assets and financial liabilities within its scope and it is not expected to have a material impact on our consolidated financial statements. In February 2008, the FASB issued FASB Staff Position No. FAS 157-2 Effective Date of FASB Statement No. 157 (FSP FAS 157-2), which defers the effective date of SFAS 157 for all non-financial assets and non-financial liabilities, except those that are recognized or disclosed at fair value in the financial statements on a recurring basis (at least annually), for fiscal years beginning after November 15, 2008 and interim periods within those fiscal years for items within the scope of FSP FAS 157-2. We are currently assessing the impact, if any, of SFAS 157 and FSP FAS 157-2 on our consolidated financial statements.

In February 2007, the FASB issued Statement No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities* (FAS 159). This Statement, which is expected to expand fair value measurement, permits entities to choose to measure many financial instruments and certain other items at fair value. FAS 159 became effective for us beginning with the first quarter of 2008. We currently have no financial assets or financial liabilities for which SFAS 159 would be applicable.

In December 2007, the FASB issued SFAS No. 141(R) *Business Combinations* (SFAS 141(R)). SFAS 141(R) changes several underlying principles in applying the purchase method of accounting. Among the significant changes, SFAS 141(R) requires a redefining of the measurement date of a business combination, expensing direct transaction costs as incurred, capitalizing in-process research and development costs as an intangible asset and recording a liability for contingent consideration at the measurement date with subsequent re-measurements recorded in the results of operations. SFAS 141(R) also requires that costs for business restructuring and exit activities related to the acquired company will be included in the post-combination financial results of operations and also provides new guidance for the recognition and measurement of contingent assets and liabilities in a business combination. In addition, SFAS 141(R) requires several new disclosures, including the reasons for the business combination, the factors that contribute to the recognition of goodwill, the amount of acquisition related third-party expenses incurred, the nature and amount of contingent consideration, and a discussion of pre-existing relationships between the parties. SFAS 141(R) is effective as of January 1, 2009. We currently do not have any plans for a business combination, therefore SFAS No.141 (R) is expected to have no impact on our Consolidated Financial Statements.

In December 2007, the FASB issued SFAS No. 160 *Noncontrolling Interests in Consolidated Financial Statements, an Amendment of ARB No. 51* (SFAS 160). SFAS 160 establishes accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. SFAS 160 requires noncontrolling interests in subsidiaries initially to be measured at fair value and classified as a separate component of equity. SFAS 160 also requires a new presentation on the face of the consolidated financial statements to separately report the amounts attributable to controlling and non-controlling interests. SFAS 160 is effective as of January 1, 2009. We do not expect SFAS No. 160 to have an impact on our Consolidated Financial Statements.

In April 2008, the FASB issued FASB Staff Position No. FAS 142-3, *Determination of the Useful Life of Intangible Assets* (FSP No. FAS 142-3). FSP No. FAS 142-3 requires companies estimating the useful life of a recognized intangible asset to consider their historical experience in renewing or extending similar arrangements or, in the absence of historical experience, to consider assumptions that market participants would use about renewal or extension as adjusted for SFAS No. 142 s, *Goodwill and Other Intangible Assets*, entity-specific factors. FSP No. FAS 142-3 is effective for fiscal years beginning after December 15, 2008 (fiscal 2010 for the Company). We are currently assessing the impact, if any, of FAS 142-3 on our consolidated financial statements.

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****Six Months Ended June 30, 2008 and 2007****C. DISCONTINUED OPERATIONS**

In the fourth quarter of 2005, we implemented a plan to exit the Nucleic Acids operating segment. Accordingly, we now reflect the results related to this operating segment as discontinued operations for all periods presented. Expenses that are not directly identified to the Nucleic Acids operating segment or that are considered corporate overhead have not been allocated in arriving at the loss from discontinued operations. Summary results of operations of the former Nucleic Acids operating segment were as follows:

| | Dollars in Thousands | | | |
|---|--------------------------------|--------|------------------------------|-------|
| | Three Months Ended June 30, | | Six Months Ended June 30, | |
| | 2008 | 2007 | 2008 | 2007 |
| NET SALES | \$ | \$ | \$ | \$ |
| COST OF GOODS SOLD | | | | |
| Gross profit | | | | |
| OPERATING EXPENSES | | 7 | | (66) |
| INCOME (LOSS) FROM OPERATIONS | | (7) | | 66 |
| OTHER INCOME | | | | |
| INCOME (LOSS) BEFORE INCOME TAXES | | (7) | | 66 |
| INCOME TAX | | | | |
| INCOME (LOSS) FROM DISCONTINUED OPERATIONS | \$ | \$ (7) | \$ | \$ 66 |

Assets associated with the Nucleic Acids segment consisted principally of our facility in Glasgow, Scotland. During the quarter ended March 31, 2007, we completed the sale of the Glasgow facility and the associated equipment for \$2.9 million, net of selling expenses, which resulted in a gain of \$0.1 million.

The only remaining asset of the former Nucleic Acids operating segment is \$0.2 million in Accounts Receivable which is fully reserved at June 30, 2008. There are no liabilities associated with the former Nucleic Acids operating segment at June 30, 2008.

D. INVENTORIES

Inventories consisted of the following:

| | Dollars in Thousands | |
|-----------------------------------|----------------------|----------------------|
| | June 30, 2008 | December 31, 2007 |
| Finished goods | \$ 3,466 | \$ 3,123 |
| Raw materials and work in process | 1,070 | 1,370 |
| Demonstration inventory | 81 | 93 |

\$ 4,617 \$ 4,586

E. OTHER ASSETS

Finite lived intangible assets and other assets consisted of the following:

| | Dollars in Thousands | | | | | |
|-----------------------|----------------------|-----------------------------|-------------------|-------------------|-----------------------------|-------------------|
| | June 30, 2008 | | | December 31, 2007 | | |
| | Cost | Accumulated Amortization | Net Book Value | Cost | Accumulated Amortization | Net Book Value |
| Intellectual property | \$ 865 | \$ 738 | \$ 127 | \$ 865 | \$ 715 | \$ 150 |
| Patents | 685 | 208 | 477 | 659 | 185 | 474 |
| Other | 268 | 194 | 74 | 303 | 217 | 86 |
| Total | \$ 1,818 | \$ 1,140 | \$ 678 | \$ 1,827 | \$ 1,117 | \$ 710 |

Table of Contents

TRANSGENOMIC, INC. AND SUBSIDIARIES

NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Six Months Ended June 30, 2008 and 2007

Amortization expense for intangible assets was less than \$0.1 million during the three months ended June 30, 2008 and 2007, respectively, and less than \$0.1 million during the six months ended June 30, 2008 and 2007, respectively. Amortization expense for intangible assets is expected to be less than \$0.1 million for each of the years 2008 through 2014.

F. COMMITMENTS AND CONTINGENCIES

We are subject to a number of claims of various amounts, which arise out of the normal course of business. In the opinion of management, the disposition of pending claims will not have a material adverse effect on our financial position, results of operations or cash flows.

We lease certain equipment, vehicles and operating facilities under non-cancellable operating leases that expire on various dates through 2014. The future minimum lease payments required under these leases are approximately \$0.5 million for the remainder of 2008, \$0.9 million in 2009, \$0.7 million in 2010, \$0.5 million in 2011, \$0.3 million in 2012, and \$0.1 million thereafter. Rent expense for continuing operations related all to operating leases for the three months ended June 30, 2008 and 2007 was approximately \$0.2 million and \$0.2 million, respectively and for the six months ended June 30, 2008 and 2007 was approximately \$0.4 million and \$0.5 million, respectively.

At June 30, 2008, firm commitments to vendors to purchase components used in WAVE Systems and instruments manufactured by others totaled \$0.3 million.

G. INCOME TAXES

We file income tax returns in the U.S. federal jurisdiction, various U.S. state jurisdictions and various foreign jurisdictions. We have statutes of limitation open for Federal income tax returns related to tax years 2004 through 2007. We have state income tax returns subject to examination primarily for tax years 2003 through 2007. Open tax years related to foreign jurisdictions remain subject to examination. Our primary foreign jurisdiction is the United Kingdom which has open tax years for 2005 through 2007. We are currently under examination by the Internal Revenue Service for the tax year ending December 31, 2006.

During the three and six months ended June 30, 2008, there were no material changes to the liability for uncertain tax positions.

H. EMPLOYEE BENEFIT PLAN

We maintain an employee 401(k) retirement savings plan that allows for voluntary contributions into designated investment funds by eligible employees. We match the employees' contributions at the rate of 50% on the first 6% of contributions. We may, at the discretion of our Board of Directors, make additional contributions on behalf of the Plan's participants. Contributions to the 401(k) plan were less than \$0.1 million for each of the three and six months ended June 30, 2008 and 2007.

I. STOCKHOLDERS EQUITY

Common Stock Warrants.

No common stock warrants were issued during the three and six months ended June 30, 2008 or 2007. At June 30, 2008, there were warrants outstanding which were exercisable to purchase 8,039,640 shares of common stock.

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| Warrant Holder | Issue Year | Expiration Year | Underlying Shares | Exercise Price |
|-----------------------------------|-------------------|------------------------|--------------------------|-----------------------|
| Various Institutional Holders (1) | 2005 | 2010 | 6,903,156 | \$ 1.20 |
| Laurus Master Fund, Ltd. (2) | 2003 | 2010 | 200,000 | \$ 1.92 |
| Laurus Master Fund, Ltd. (2) | 2003 | 2010 | 200,000 | \$ 2.07 |
| Laurus Master Fund, Ltd. (2) | 2003 | 2010 | 150,000 | \$ 2.35 |
| Laurus Master Fund, Ltd. (2) | 2004 | 2011 | 125,000 | \$ 2.57 |
| Laurus Master Fund, Ltd. (2) | 2004 | 2011 | 400,000 | \$ 1.18 |
| TN Capital Equities, Ltd. | 2003 | 2008 | 45,918 | \$ 2.94 |
| TN Capital Equities, Ltd. | 2004 | 2009 | 15,566 | \$ 3.18 |
| Total | | | 8,039,640 | |

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****Six Months Ended June 30, 2008 and 2007**

- (1) These warrants were issued in conjunction with a private placement of common stock in October 2005 (the 2005 Private Placement).
- (2) These warrants were issued in conjunction with two loans that had been made to us by Laurus Master Fund, Ltd. (the Laurus Loans), and subsequent modifications of these loans. In conjunction with the 2005 Private Placement, the exercise prices of these warrants were adjusted according to repricing provisions contained in the original warrant agreements. While the Laurus Loans have been terminated, the warrants remain outstanding.

J. STOCK OPTIONS

The following table summarizes stock option activity during the six months ended June 30, 2008:

| | Number of Options | Weighted Average Exercise Price |
|-------------------------------|-------------------------|------------------------------------|
| Balance at January 1, 2008: | 4,535,064 | \$ 3.26 |
| Granted | 180,000 | .73 |
| Exercised | | |
| Forfeited/Expired | (723,000) | 3.89 |
| Balance at June 30, 2008: | 3,992,064 | \$ 2.99 |
| Exercisable at June 30, 2008: | 2,630,232 | \$ 4.20 |

During the six months ended June 30, 2008, we granted 180,000 stock options at a weighted average exercise price of \$0.73 under our 2006 Equity Incentive Plan. The weighted average grant date fair value per share of options granted during the six months ended June 30, 2008 was \$0.60.

K. OPERATING SEGMENT AND GEOGRAPHIC INFORMATION

We have one reportable operating segment. Although net sales are analyzed by type, net financial results are analyzed as one segment due to the integrated nature of the products. Net sales by product were as follows:

| | Dollars in Thousands Three Months Ended June 30, | | Dollars in Thousands Six Months Ended June 30, | |
|------------------------------|--|----------|--|----------|
| | 2008 | 2007 | 2008 | 2007 |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 2,762 | \$ 3,383 | \$ 5,791 | \$ 6,006 |
| Bioconsumables | 2,467 | 2,218 | 4,720 | 4,448 |

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| | | | | |
|---|----------|----------|-----------|-----------|
| | 5,229 | \$ 5,601 | 10,511 | \$ 10,454 |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 708 | 526 | 1,215 | 816 |
| Pharmacogenomics Research Services | 309 | 145 | 775 | 224 |
| | 1,017 | 671 | 1,990 | 1,040 |
| Total Net Sales | \$ 6,246 | \$ 6,272 | \$ 12,501 | \$ 11,494 |

Table of Contents**TRANSGENOMIC, INC. AND SUBSIDIARIES****NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****Six Months Ended June 30, 2008 and 2007**

Net cost of goods sold was as follows:

| | Dollars in Thousands | | | |
|---|----------------------|-----------------|------------------|-----------------|
| | Three Months Ended | | Six Months Ended | |
| | June 30, | | June 30, | |
| | 2008 | 2007 | 2008 | 2007 |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 914 | \$ 1,368 | \$ 1,943 | \$ 2,359 |
| Bioconsumables | 1,034 | 1,013 | 2,036 | 2,078 |
| | \$ 1,948 | \$ 2,381 | \$ 3,979 | \$ 4,437 |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 381 | 281 | 728 | 572 |
| Pharmacogenomics Research Services | 178 | 197 | 415 | 364 |
| | 559 | 478 | 1,143 | 936 |
| Total Cost of Goods Sold | \$ 2,507 | \$ 2,859 | \$ 5,122 | \$ 5,373 |

Net sales by geographic region were as follows:

| | Dollars in Thousands | | | |
|---|----------------------|-----------------|------------------|------------------|
| | Three Months Ended | | Six Months Ended | |
| | June 30, | | June 30, | |
| | 2008 | 2007 | 2008 | 2007 |
| United States | \$ 2,629 | \$ 2,365 | \$ 4,787 | \$ 3,658 |
| Europe | 3,049 | 3,411 | 6,467 | 6,650 |
| Pacific Rim | 133 | 326 | 395 | 641 |
| Other | 435 | 170 | 852 | 545 |
| Total Net Sales by Geographic Region | \$ 6,246 | \$ 6,272 | \$ 12,501 | \$ 11,494 |

No customer accounted for more than 10% of consolidated net sales during the three and six months ended June 30, 2008 and 2007. For the six months ended June 30, 2008 one customer made up 23% of the laboratory services net sales.

Substantially all of the long-lived assets are within the United States.

Table of Contents

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations
Overview

Transgenomic, Inc. provides innovative products for the purification and analysis of nucleic acids used in the life sciences industry for research focused on molecular genetics and diagnostics. We also provide genetic variation analytical services to the medical research, clinical and pharmaceutical markets. Net sales are categorized as Instrument Related and Laboratory Services.

Instrument Related Business:

Bioinstruments. Our flagship product is the WAVE® System which has broad applicability to genetic variation detection in both molecular genetic research and molecular diagnostics. There is a worldwide installed base of over 1,425 WAVE Systems as of June 30, 2008. We also distribute bioinstruments produced by other manufacturers (OEM Equipment) through our sales and distribution network. Service contracts to maintain installed systems are sold and supported by technical support personnel.

Bioconsumables. The installed WAVE base and some third-party installed platforms generate a demand for consumables that are required for the system's continued operation. We develop, manufacture and sell these products. In addition, we manufacture and sell consumable products that can be used on multiple, independent platforms. These products include SURVEYOR® Nuclease and a range of HPLC separation columns.

Laboratory Services:

Molecular Clinical Reference Laboratory. The Molecular Clinical Reference Laboratory specializes in mitochondrial and molecular diagnostic testing including genetic testing for oncology, hematology and inherited disorders. Located in Omaha, Nebraska the clinical laboratory operates in a Good Laboratory Practices compliant environment and is certified under the Clinical Laboratory Improvement Amendment.

Pharmacogenomics Research Services. Pharmacogenomics Research Services is a Contract Research Organization located in Gaithersburg, Maryland. It specializes in pharmacogenomic, biomarker and mutation discovery research serving the pharmaceutical and biomedical industries world-wide for disease research, drug and diagnostic development and clinical trial support.

Historically, we operated a segment (the Nucleic Acids operating segment) that developed, manufactured and marketed chemical building blocks for nucleic acid synthesis. In the fourth quarter of 2005, we implemented a plan to exit the Nucleic Acids operating segment and during the three months ended March 31, 2007, we completed the sale of the remaining assets associated with this segment. Accordingly, the assets and results of the Nucleic Acids operating segment are reflected as discontinued operations for all periods presented in this filing.

Executive Summary

Net sales for the six months ended June 30, 2008 increased by \$1.0 million or 9% compared to the same period in 2007. Net sales from bioinstruments were down 4% and net sales of consumables were up 6% for the comparable 6-month periods. During the six months ended June 30, 2008, net sales from laboratory services grew 91%, or \$1.0 million, compared to the same 6-month period in 2007. The Clinical Reference Laboratory showed growth of 49% and Pharmacogenomics Research Services grew by 246%. Gross margins improved year over year. Our gross profit margin improved from 53% for the six months ended June 30, 2007 to 59% for the same period in 2008. The largest contributor to our improved gross margin was our laboratory services product line which went from 10% gross profit in the six months ended June 30, 2007 to 43% for the same period in 2008. Net income was \$0.2 million for the six months ended June 30, 2008.

Net sales for the three months ended June 30, 2008 were flat, compared to the same period in 2007. For the second quarter of 2008 net sales from bioinstruments were down 18%, while consumables were up 11% compared to the second quarter of 2007. Net sales from Laboratory Services grew 52%, or \$0.3 million, compared to the same quarter in 2007. The Molecular Clinical Reference Laboratory showed growth of \$0.2 million or 35% and Pharmacogenomics Research Services increased by \$0.2 million or 113%. Gross margins improved year over year. Our

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gross profit margin improved from 54% in the second quarter of 2007 to 60% in the quarter ended June 30, 2008. The largest contributor to this increase is our laboratory services product line which went from a gross profit of 29% in the second quarter of 2007 to a gross profit margin of 45% in the quarter ended June 30, 2008. Net income was \$0.1 million for the quarter ended June 30, 2008. As of June 30, 2008, we had cash and cash equivalents of \$5.7 million.

Table of Contents**Outlook**

We continue to work toward our objective of generating income from continuing operations and positive cash flows from continuing operations. To accomplish these goals, we must generate sequential growth in net sales and continue to control manufacturing and other operating expenses. We are investing in all parts of our business to drive improved sales in 2008 and have added experienced sales staff. We continue to work on development of collaborative opportunities for our Molecular Clinical Reference Laboratory and Pharmacogenomics Research Services business. In addition, we have strengthened our Board of Directors, added key senior management and formed a Scientific Advisory Board to advise us on the latest developments and scientific opportunities in cancer detection screening and mitochondrial disease diagnosis.

Results of Continuing Operations**Three Months Ended June 30, 2008 and 2007**

Net Sales. Net sales consisted of the following:

| | Dollars in Thousands | | | |
|---|----------------------|-----------------|----------------|-----------|
| | Three Months Ended | | Change | |
| | June 30, 2008 | 2007 | \$ | % |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 2,762 | \$ 3,383 | \$ (621) | (18)% |
| Bioconsumables | 2,467 | 2,218 | 249 | 11% |
| | 5,229 | 5,601 | (372) | (7)% |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 708 | 526 | 182 | 35% |
| Pharmacogenomics Research Services | 309 | 145 | 164 | 113% |
| | 1,017 | 671 | 346 | 52% |
| Total Net sales | \$ 6,246 | \$ 6,272 | \$ (26) | 0% |

The bioinstrument net sales decrease of 18% was due to fewer WAVE Systems being sold. Five WAVE Systems were sold during the three months ended June 30, 2008, compared to sixteen during the same period of 2007. The average sales price of the WAVE s increased due to the shift in more sales in our European market. WAVE sales in each period include sales of refurbished WAVEs. There were three OEM instrument sales in each of the second quarters of 2008 and 2007. We continue to face significant competitive challenges for our instrument sales from traditional (i.e. sequencing) and evolving technologies. During the second quarter of 2008, net sales of consumables related to our WAVE Systems and other third-party instruments increased 11% compared to the same quarter in 2007. This increase was attributable to our international business. The largest growth in net sales was from our laboratory services group. The 52% increase was attributable to growth in our Molecular Clinical Reference Laboratory of 35% or \$0.2 million. Pharmacogenomics research services increased 113% or \$0.2 million compared to the same quarter in 2007.

Costs of Goods Sold. Costs of goods sold include material costs for the products that we sell and substantially all other costs associated with our manufacturing facilities (primarily personnel costs, rent and depreciation). It also includes direct costs (primarily personnel costs, rent, supplies and depreciation) associated with our laboratory services operations. Cost of goods sold consisted of the following:

| | Dollars in Thousands | | | |
|-------------------------------------|----------------------|----------|----------|-------|
| | Three Months Ended | | Change | |
| | June 30, 2008 | 2007 | \$ | % |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 914 | \$ 1,368 | \$ (454) | (33)% |

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| | | | | |
|---|----------|----------|----------|-------|
| Bioconsumables | 1,034 | 1,013 | 21 | 2% |
| | 1,948 | 2,381 | (433) | (18)% |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 381 | 281 | 100 | 36% |
| Pharmacogenomics Research Services | 178 | 197 | (19) | (10)% |
| | 559 | 478 | 81 | 17% |
| Cost of goods sold | \$ 2,507 | \$ 2,859 | \$ (352) | (12)% |

Table of Contents

Gross profit was \$3.7 million or 60% of total net sales during the three months ended June 30, 2008, compared to \$3.4 million or 54% during the same period of 2007. Gross profit as a percentage of net sales increased due to a shift in sales to our European markets with a higher average sales price, lower manufacturing costs and the leverage related to the laboratory services net sales. The reduction in manufacturing costs is attributable to our restructuring plan which was executed in 2007. Laboratory services costs have a large fixed component, so increases in net sales drive gross profit improvement. The laboratory services revenue increased 52% for the second quarter of 2008 over the second quarter of 2007, while the increase in cost of goods sold was only 17%. During the 3 months ended June 30, 2007, the gross margin for the Clinical Reference Laboratory was negative.

Selling, General and Administrative Expenses. Selling, general and administrative expenses primarily consist of personnel costs, marketing, travel and entertainment costs, professional fees, and facility costs. For the second quarter of 2008 these costs were flat compared to the same period of 2007. Foreign currency translation adjustments decreased selling, general and administrative expenses by \$0.3 million in the period ending June 30, 2008. This offset the increase in selling, general and administrative expenses due to the additions of executive staff, sales team and the Scientific Advisory Board.

Research and Development Expenses. Research and development expenses primarily include personnel costs, outside services, supplies, and facility costs and are expensed in the period in which they are incurred. For the second quarter of 2008 these costs increased by \$0.1 million compared to the same period of 2007. They totaled \$0.6 million during the three months ended June 30, 2008, compared to \$0.5 million during the same period of 2007. The 2008 expenses were higher due to expenditures for collaboration projects.

Research and development expenses totaled 9% and 8% of net sales during the three months ended June 30, 2008 and 2007, respectively.

Other Income (Expense). Other income consists primarily of interest income from cash and cash equivalents invested in overnight instruments. Other income during the three months ended June 30, 2008 was less than \$0.1 million as compared to \$1.0 million for the three months ended June 30, 2007. The decrease was attributable to the sale of an investment in equity securities. On May 10, 2007 we sold 250,000 shares of stock in Pinnacle Pharmaceuticals, Inc. which we acquired in connection with a prior business acquisition. Gross proceeds realized from the sale were \$0.9 million and because our carrying cost in this stock was \$0, the sale resulted in a gain of \$0.9 million.

Income Tax Expense. In July 2006, the FASB issued Interpretation (FIN) No. 48, *Accounting for Uncertainty in Income Taxes*. FIN 48 applies to all tax positions within the scope of Statement 109 and clarifies when and how to recognize tax benefits in the financial statements with a two-step approach of recognition and measurement. We adopted FIN 48 on January 1, 2007. Under FIN 48, tax benefits are recognized only for tax positions that are more likely than not to be sustained upon examination by tax authorities. The amount recognized is measured as the largest amount of benefit that is more likely than not to be realized upon ultimate settlement. Unrecognized tax benefits are tax benefits claimed in our tax returns that do not meet these recognition and measurement standards.

Six Months Ended June 30, 2008 and 2007

Net Sales. Net sales consisted of the following:

| | Dollars in Thousands | | | |
|---|----------------------|------------------|-----------------|-----------|
| | Six Months Ended | | Change | |
| | June 30, 2008 | 2007 | \$ | % |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 5,791 | \$ 6,006 | \$ (215) | (4)% |
| Bioconsumables: | 4,720 | 4,448 | 272 | 6% |
| | 10,511 | 10,454 | 57 | 1% |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 1,215 | 816 | 399 | 49% |
| Pharmacogenomics Research Services | 775 | 224 | 551 | 246% |
| | 1,990 | 1,040 | 950 | 91% |
| Net Sales | \$ 12,501 | \$ 11,494 | \$ 1,007 | 9% |

Table of Contents

The net sales of bioinstruments decreased 4% due to a couple factors. First, fewer WAVE Systems were sold. Fourteen WAVE Systems were sold during the six months ended June 30, 2008, compared to 30 during the same period of 2007. Offsetting this was an increase in the average sales price of WAVE instruments which was 60% higher in 2008 due to geographic mix and type of instrument mix. WAVE sales in each 6-month period include sales of refurbished WAVEs. This decrease in instruments sold resulted from lower demand in all major geographic markets and among both research and diagnostic users, particularly in our largest markets throughout Western Europe. There are significant competitive challenges from traditional (i.e. sequencing) and evolving technologies. There were seven OEM instruments sold during the six months ended June 30, 2008 compared to 5 during the same period in 2007. Net sales of consumables related to our WAVE Systems and other third-party instruments increased over the same period in 2007 due to slight growth primarily in our international business. The largest growth, an increase of 91%, was in laboratory services. The Clinical Reference Laboratory increased 49% or \$0.4 million over the same period in 2007. Pharmacogenomics Services increased 246% or \$0.6 million over the 6 months ended June 30, 2007.

Costs of Goods Sold. Costs of goods sold include material costs for the products that we sell and substantially all other costs associated with our manufacturing facilities (primarily personnel costs, rent and depreciation). It also includes direct costs (primarily personnel costs, rent, supplies and depreciation) associated with our discovery services operations. Cost of goods sold consisted of the following:

| | Dollars in Thousands | | | |
|---|----------------------|-----------------|-----------------|-------------|
| | Six Months Ended | | Change | |
| | June 30, 2008 | 2007 | \$ | % |
| Instrument Related Business: | | | | |
| Bioinstruments | \$ 1,943 | \$ 2,359 | \$ (416) | (18)% |
| Bioconsumables | 2,036 | 2,078 | (42) | (2)% |
| | 3,979 | 4,437 | (458) | (10)% |
| Laboratory Services: | | | | |
| Molecular Clinical Reference Laboratory | 728 | 572 | 156 | 27% |
| Pharmacogenomics Research Services | 415 | 364 | 51 | 14% |
| | 1,143 | 936 | 207 | 22% |
| Cost of Goods Sold | \$ 5,122 | \$ 5,373 | \$ (251) | (5)% |

Gross profit was \$7.4 million or 59% of total net sales during the six months ended June 30, 2008 compared to \$6.1 million or 53% during the same period of 2007. Gross profits as a percentage of net sales increased due to a shift in sales to our European markets with a higher average sales price, lower manufacturing costs and the leverage related to the laboratory services net sales. The reduction in manufacturing costs is attributable to our restructuring plan which was implemented in 2007. Laboratory services costs have a large fixed component, so increases in net sales drive gross profit improvement.

Selling, General and Administrative Expenses. Selling, general and administrative expenses primarily consist of personnel costs, marketing, travel and entertainment costs, professional fees, and facility costs. These costs totaled \$6.1 million during the six months ended June 30, 2008, compared to \$6.0 million during the same period of 2007. Foreign currency translation adjustments decreased selling, general and administrative expenses by \$0.5 million in the period ending June 30, 2008. This offset the increase in selling, general and administrative expenses due to the additions of executive staff, sales team and the Scientific Advisory Board.

Research and Development Expenses. Research and development expenses primarily include personnel costs, outside services, supplies, and facility costs and are expensed in the period in which they are incurred. These costs totaled \$1.1 million during the six months ended June 30, 2008, compared to \$1.5 million during the same period of 2007, a decrease of \$0.4 million. Such costs for the 6-month period ended June 30, 2007 were higher primarily due to collaboration expense on new WAVE applications and patent costs for laboratory services.

Research and development expenses totaled 9% and 13% of net sales during the six months ended June 30, 2008 and 2007, respectively.

Restructuring Charges. Restructuring charges in 2007 consisted of costs related to a reduction in work force at our Omaha, Nebraska facility, activities to close a production facility in Cramlington, England, and activities to close an administrative office outside of Paris, France. Restructuring charges during the first six months of 2008 related to the relocation of laboratory personnel from Gaithersburg, Maryland to

Omaha, Nebraska.

Table of Contents

Other Income (Expense). Other income during the six month periods ended June 30, 2008 and June 30, 2007 was less than \$0.1 million and \$1.0 million, respectively. The decrease was attributable to the sale of an investment in equity securities. On May 10, 2007, the Company sold 250,000 shares of stock in Pinnacle Pharmaceuticals, Inc. at a price of \$3.75 per share. Gross proceeds realized from the sale were \$937,500 which resulted in a gain of \$937,500 and is reflected in other income during the period. Remaining other income consisted primarily of interest income from cash and cash equivalents invested in overnight instruments.

Income Tax Expense. In July 2006, the FASB issued Interpretation (FIN) No. 48, *Accounting for Uncertainty in Income Taxes*. FIN 48 applies to all tax positions within the scope of Statement 109 and clarifies when and how to recognize tax benefits in the financial statements with a two-step approach of recognition and measurement. We adopted FIN 48 on January 1, 2007. Under FIN 48, tax benefits are recognized only for tax positions that are more likely than not to be sustained upon examination by tax authorities. The amount recognized is measured as the largest amount of benefit that is more likely than not to be realized upon ultimate settlement. Unrecognized tax benefits are tax benefits claimed in our tax returns that do not meet these recognition and measurement standards.

Results of Discontinued Operations

In the fourth quarter of 2005, we implemented a plan to exit the Nucleic Acids operating segment. Accordingly, we now reflect the related results as discontinued operations for all periods presented. Expenses that were not directly identified to the Nucleic Acids operating segment or that were considered corporate overhead were not allocated in arriving at the loss from discontinued operations. 2008 results have no impact from these discontinued operations. For the three months ended March 31, 2007, there was a \$7,000 loss from discontinued operations and for the six months ended June 30, 2007 there was a gain of \$66,000.

The only remaining asset of the former Nucleic Acids operating segment is \$0.2 million in Accounts Receivable which is fully reserved at June 30, 2008. There are no liabilities at June 30, 2008 associated with this discontinued operating segment.

Liquidity and Capital Resources

Our working capital positions at June 30, 2008 and December 31, 2007 were as follows:

| | Dollars in Thousands | | |
|---|----------------------|----------------------|---------------|
| | June 30, 2008 | December 31, 2007 | Change |
| Current assets (including cash and cash equivalents of \$5,692 and \$5,723, respectively) | \$ 16,467 | \$ 16,163 | \$ 304 |
| Current liabilities | 4,618 | 4,847 | (229) |
| Working capital | \$ 11,849 | \$ 11,316 | \$ 533 |

Management believes existing sources of liquidity, including cash and cash equivalents of \$5.7 million, are sufficient to meet expected cash needs during the remainder of 2008. We are investing in all parts of our business to drive improved sales in 2008 and have added experienced sales staff. We cannot assure you that we will be able to increase net sales or further reduce our expenses and, accordingly, we may not have sufficient sources of liquidity to continue operations indefinitely. If necessary, management believes they can further reduce costs and expenses to conserve working capital. However, such cost and expense reductions could have an adverse impact on our new product pipeline and ultimately net sales. We could also pursue additional financing, but optimally, our goal is to achieve sufficient net sales to consistently generate net income and positive cash flow.

Analysis of Cash Flows**Six Months Ended June 30, 2008 and 2007**

Net Change in Cash and Cash Equivalents. Cash and cash equivalents remained flat during the six months ended June 30, 2008 compared to an increase of \$2.0 million during the six months ended June 30, 2007. In 2008 the net cash provided by operating activities of \$0.2 million was offset by the net cash flow used in investing activities (largely purchases of property and equipment) and the impact of foreign currency exchange rates. The 2007 increase was the result of net cash provided by investing activities of \$3.6 million, offset by net cash used by operating activities of \$1.6 million. These were minimally offset by foreign currency exchange rates.

Table of Contents

Cash Flows from Operating Activities. Cash flows provided by operating activities totaled \$0.2 million during the six months ended June 30, 2008, compared to cash flows used in operating activities of \$1.6 million during the same period of 2007. The cash flows provided in 2008 related to the net income of \$0.2 million. In addition, the increase in accounts receivable of \$0.4 million was offset by the decrease in accounts payable. The use of cash flows in 2007 related primarily to the gain on sales of an investment in equity securities of \$0.9 million, as well as higher inventory levels of \$0.6 million related to OEM instruments.

Cash Flows from Investing Activities. Cash flows used in investing activities totaled \$0.1 million during the six months ended June 30, 2008 compared to cash flows provided by investing activities of \$3.6 million during the same period of 2007. Cash flows used in investing activities in 2008 consisted primarily of purchases of property and equipment. Cash flows provided by investing activities in 2007 consisted primarily of sales proceeds from our Glasgow facility and equipment of \$2.9 million and sales proceeds of an investment in equity securities of \$0.9 million.

Cash Flows from Financing Activities. Cash flows from financing activities were minimal during the six months ended June 30, 2008 and 2007.

Off-Balance Sheet Arrangements

At June 30, 2008 and December 31, 2007, we did not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

Critical Accounting Policies and Estimates

Accounting policies used in the preparation of the consolidated financial statements may involve the use of management judgments and estimates. Certain of our accounting policies are considered critical as they are both important to the portrayal of our financial statements and they require significant or complex judgments on the part of management. Our judgments and estimates are based on experience and assumptions that we believe are reasonable under the circumstances. Further, we evaluate our judgments and estimates from time to time as circumstances change. Actual financial results based on judgments or estimates may vary under different assumptions or circumstances. Our critical accounting policies are discussed in our annual report on Form 10-K for the fiscal year ended December 31, 2007.

Recently Issued Accounting Pronouncements

Please refer to our annual report on Form 10-K for the fiscal year ended December 31, 2007. There have been no changes to those accounting pronouncements listed except as noted in note B to the financial statements contained in this report.

Impact of Inflation

We do not believe that price inflation had a material adverse effect on our financial condition or results of operations during the periods presented.

Item 4T. Controls and Procedures

Evaluation of Disclosure Controls and Procedures. We evaluated the design and operating effectiveness of our disclosure controls and procedures as of June 30, 2008 pursuant to Rule 13a-15(b) of the Securities Exchange Act of 1934. Based on this evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, because of the material weakness in our internal control over financial reporting described in item 9A(T) of our report on Form 10-K for the fiscal year ended December 31, 2007, our disclosure controls and procedures as defined in Rule 13a-15(e) continued to not be effective. Notwithstanding the material weakness in our internal control over financial reporting as of June 30, 2008, we believe that the consolidated financial statements contained in this report present fairly our financial condition, results of operations, and cash flows for the fiscal years covered thereby in all material respects. To address the material weakness in our internal control over financial reporting, management performed additional manual procedures and analysis and other post-closing procedures in order to prepare the consolidated financial statements included in this report.

Change in Internal Control Over Financial Reporting. There have been no changes in our internal control over financial reporting during the quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Table of Contents

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are subject to a number of claims of various amounts which arise out of the normal course of our business. In our opinion, the disposition of pending claims will not have a material adverse effect on our financial position, results of operations or cash flows.

Item 1A. Risk Factors

There have been no material changes in our risk factors from those described in Item 1A of our annual report on Form 10-K for the fiscal year ended December 31, 2007.

Item 6. Exhibits

(a) Exhibits

- 3.1 Third Amended and Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to Registrant's Report on Form 10-Q (Registration No. 000-30975) filed on November 14, 2005)
- 3.2 Amended and Restated Bylaws of the Registrant (incorporated by reference to Registrant's Report on Form 8-K (Registration No. 000-30975) filed on May 25, 2007)
- 4 Form of Certificate of the Registrant's Common Stock (incorporated by reference to Exhibit 4 to Registration Statement on Form S-1 (Registration No. 333-32174) filed on March 10, 2000)
- 31 Certifications pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32 Certifications pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

TRANSGENOMIC, INC.

Date: August 6, 2008

By:

/s/ CRAIG J. TUTTLE
Craig J. Tuttle

President and Chief Executive Officer