

H&Q HEALTHCARE INVESTORS  
Form N-Q  
March 01, 2007

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL  
OMB Number: 3235-0578  
Expires: May 31, 2007  
Estimated average burden hours per  
response.....21.09

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED  
MANAGEMENT INVESTMENT COMPANY**

Investment Company Act file number 811-04889

H&Q Healthcare Investors  
(Exact name of registrant as specified in charter)

30 Rowes Wharf, Boston, MA  
(Address of principal executive offices)

02110  
(Zip code)

(Name and address of agent for service)

Registrant's telephone number, including area code: 617-772-8500

Date of fiscal year end: September 30

Date of reporting period: 12/31/06

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (ss.ss. 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b-15 under the Investment Company Act of 1940 (17CFR 270.3b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ( OMB ) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss.3507.

**Item 1. Schedule of Investments.**

---

**H&O HEALTHCARE INVESTORS****SCHEDULE OF INVESTMENTS**

DECEMBER 31, 2006

(Unaudited)

| SHARES    |   | VALUE      |
|-----------|---|------------|
|           | <b>CONVERTIBLE SECURITIES AND WARRANTS 14.9% of Net Assets</b>  |            |
|           | <b>Convertible Preferred (Restricted) (e) 14.8%</b>             |            |
|           | <i>Drug Discovery Technologies 1.5%</i>                         |            |
| 2,380,953 | Agilix Corporation Series B (a) (b)                             | \$ 141,809 |
| 375,000   | Ceres, Inc. Series C (a)  | 2,250,000  |
| 32,193    | Ceres, Inc. Series C-1 (a)                                      | 193,158    |
| 280,105   | Ceres, Inc. Series D (a)  | 1,680,630  |
| 324,717   | Cougar Biotechnology Inc. Series A (a)                          | 1,462,493  |
| 1,398,732 | Galileo Pharmaceuticals, Inc. Series F-1 (a)                    | 140        |
| 300,000   | Zyomyx, Inc. Series A New (a)                                   | 30,000     |
| 300       | Zyomyx, Inc. Series B New (a)                                   | 30         |
|           | <i>Emerging Biopharmaceuticals 3.8%</i>                         |            |
| 1,117,381 | Agensys, Inc. Series C (a)                                      | 3,300,300  |
| 1,818,182 | Raven biotechnologies, Inc. Series B (a)                        | 1,509,091  |
| 2,809,157 | Raven biotechnologies, Inc. Series C (a)                        | 2,331,600  |
| 4,083,022 | Raven biotechnologies, Inc. Series D (a)                        | 1,200,000  |
| 2,123,077 | TargeGen, Inc. Series C (a)                                     | 2,760,000  |
| 47,407    | Therion Biologics Corporation Series A (a)                      | 474        |
| 240,000   | Therion Biologics Corporation Series B (a)                      | 2,400      |
| 407,712   | Therion Biologics Corporation Series C (a)                      | 4,077      |
| 33,332    | Therion Biologics Corporation Series C-2 (a)                    | 334        |
| 24,999    | Therion Biologics Corporation warrants (expiration 8/18/08) (a) | 0          |
| 36,092    | Therion Biologics Corporation Sinking Fund. (a)                 | 361        |
| 4,001,078 | Xanthus Life Sciences, Inc. Series B (a)                        | 4,001,078  |
|           | <i>Healthcare Services 4.3%</i>                                 |            |
| 1,577,144 | CardioNet, Inc. Series C (a) (b)                                | 5,520,004  |
| 52,882    | CardioNet, Inc. warrants (expiration 05/01/11) (a) (b)          | 0          |
| 2,085     | CardioNet, Inc. warrants (expiration 8/29/11) (a) (b)           | 0          |
| 484,829   | CytoLogix Corporation Series A (a) (b)                          | 399,984    |
| 227,130   | CytoLogix Corporation Series B (a) (b)                          | 187,382    |
| 160,000   | I-trax, Inc. Series A (a)                                       | 5,851,617  |
| 5,384,615 | PHT Corporation Series D (a) (b)                                | 4,200,000  |
| 1,204,495 | PHT Corporation Series E (a) (b)                                | 939,506    |
|           | <i>Medical Devices and Diagnostics 5.2%</i>                     |            |
| 4,852,940 | Concentric Medical, Inc. Series B (a) (b) (c)                   | 6,794,116  |
| 1,744,186 | Concentric Medical, Inc. Series C (a) (b)                       | 2,441,860  |
| 683,000   | Concentric Medical, Inc. Series D (a) (b)                       | 956,200    |
| 222,222   | EPR, Inc. Series A (a)  | 2,222      |
| 3,669,024 | Labcyte, Inc. Series C (a)                                      | 1,920,000  |
| 2,950,000 | Magellan Biosciences, Inc. Series A (a)                         | 2,950,000  |
| 160,000   | Masimo Corporation Series D                                     | 1,760,000  |
| 1,632,653 | OmniSonic Medical Technologies, Inc. Series B (a)               | 1,365,061  |
| 1,547,988 | OmniSonic Medical Technologies, Inc. Series C (a)               | 1,294,273  |



| SHARES  |  | VALUE                |
|---|--|----------------------|
| <b>CONVERTIBLE SECURITIES AND WARRANTS continued</b>    |  |                      |
| <b>Convertible Preferred (Restricted) (e) continued</b> |  |                      |
| <i>Medical Devices and Diagnostics continued</i>        |  |                      |
| 65,217  | TherOx, Inc. Series H (a)                        | \$ 251,803           |
| 149,469   | TherOx, Inc. Series I (a)                        | 577,100              |
| 4,220   | TherOx warrants (expiration 1/26/10) (a)         | 0                    |
| 8,141   | TherOx warrants (expiration 6/09/09) (a)         | 0                    |
|   |  | \$ 58,279,103        |
| <b>PRINCIPAL AMOUNT</b>                                 |  |                      |
| <b>Convertible Notes (Restricted) (e) 0.1%</b>          |  |                      |
| <i>Healthcare Services 0.1%</i>                         |  |                      |
| 324,328   | CardioNet, Inc. Cvt. Note, 8.00% due 2007 (b)    | 324,328              |
| 168,337   | CytoLogix Corporation Cvt. Note, 6.75% (b) (d)   | 168,337              |
|   |  | \$ 492,665           |
|   | <b>TOTAL CONVERTIBLE SECURITIES AND WARRANTS</b> |                      |
|   | <b>(Cost \$68,961,579)</b>                       | <b>\$ 58,771,768</b> |

| SHARES                                  |  | VALUE       |
|---|--|-------------|
| <b>COMMON STOCKS AND WARRANTS 80.6%</b> |  |             |
| <b>Biopharmaceuticals 31.9%</b>         |  |             |
| 662,198                                 | Akorn, Inc. (a)                                    | 4,138,738   |
| 202,223                                 | Akorn, Inc. warrants (expiration 3/07/11) (a) (e)  | 171,890     |
| 168,110                                 | Alexza Pharmaceuticals, Inc. (a)                   | 1,914,773   |
| 156,070                                 | Amgen Inc. (a)                                     | 10,661,142  |
| 37,150                                  | Amylin Pharmaceuticals, Inc. (a)                   | 1,340,001   |
| 28,500                                  | Biogen Idec Inc. (a)                               | 1,401,915   |
| 356,686                                 | Cubist Pharmaceuticals, Inc. (a)                   | 6,459,583   |
| 95,080                                  | Genentech, Inc. (a)                                | 7,713,840   |
| 192,968                                 | Genzyme Corporation (a)                            | 11,882,969  |
| 248,025                                 | Gilead Sciences, Inc. (a)                          | 16,104,263  |
| 583,975                                 | Idenix Pharmaceuticals Inc. (a)                    | 5,074,743   |
| 702,979                                 | Inspire Pharmaceuticals, Inc. (a)                  | 4,463,917   |
| 35,500                                  | Invitrogen Corporation (a)                         | 2,008,945   |
| 180,400                                 | MannKind Corporation (a)                           | 2,974,796   |
| 251,200                                 | Medarex, Inc. (a)                                  | 3,715,248   |
| 339,240                                 | MedImmune, Inc. (a)                                | 10,981,199  |
| 308,000                                 | MGI Pharma, Inc. (a)                               | 5,670,280   |
| 61,860                                  | Myriad Genetics Inc. (a)                           | 1,936,218   |
| 376,150                                 | Nektar Therapeutics (a)                            | 5,721,241   |
| 349,180                                 | PDL BioPharma Inc. (a)                             | 7,032,485   |
| 205,000                                 | Pfizer, Inc.                                       | 5,309,500   |
| 109,800                                 | Schering-Plough Corporation                        | 2,595,672   |
| 386,400                                 | Solexa, Inc. warrants (expiration 4/29/07) (a) (e) | 0           |
| 526,529                                 | Tercica, Inc. (a)                                  | 2,632,645   |
| 97,350                                  | Vertex Pharmaceuticals, Inc. (a)                   | 3,642,837   |
|   |  | 125,548,840 |

Edgar Filing: H&Q HEALTHCARE INVESTORS - Form N-Q

| SHARES                                      |  | VALUE        |
|---|--|--------------|
| <b>COMMON STOCKS AND WARRANTS continued</b> |  |              |
| <b>Drug Delivery 2.4%</b>                   |  |              |
| 273,700                                     | Alkermes, Inc. (a)                                 | \$ 3,659,369 |
| 389,613                                     | DepoMed, Inc. (a)                                  | 1,344,165    |
| 257,580                                     | Penwest Pharmaceuticals Co. (a)                    | 4,280,979    |
|   |  | 9,284,513    |
| <b>Drug Discovery Technologies 7.7%</b>     |  |              |
| 264,733                                     | Aspreva Pharmaceuticals Corporation (a)            | 5,432,321    |
| 243,433                                     | Avalon Pharmaceuticals, Inc. (a)                   | 949,389      |
| 209,670                                     | Celgene Corporation (a)                            | 12,062,315   |
| 46,913                                      | Cougar Biotechnology Inc. (Restricted) (a) (e)     | 211,263      |
| 79,650                                      | Shire PLC (f)                                      | 4,919,184    |
| 66,750                                      | United Therapeutics Corporation (a)                | 3,629,198    |
| 193,200                                     | ZymoGenetics, Inc. (a)                             | 3,008,124    |
| 300,000                                     | Zyomyx, Inc. (Restricted) (a) (e)                  | 3,000        |
|   |  | 30,214,794   |
| <b>Emerging Biopharmaceuticals 6.9%</b>     |  |              |
| 492,748                                     | ACADIA Pharmaceuticals Inc. (a)                    | 4,331,255    |
| 649,741                                     | Ariad Pharmaceuticals, Inc. (a)                    | 3,339,669    |
| 427,875                                     | Barrier Therapeutics, Inc. (a)                     | 3,226,177    |
| 155,180                                     | DOV Pharmaceutical, Inc. (a)                       | 41,899       |
| 500,450                                     | Exelixis, Inc. (a)                                 | 4,504,050    |
| 170,678                                     | Momenta Pharmaceuticals, Inc. (a)                  | 2,684,765    |
| 288,520                                     | Neurogen Corporation (a)                           | 1,716,694    |
| 454,078                                     | Nitromed, Inc. (a)                                 | 1,112,491    |
| 45,170                                      | Progenics Pharmaceuticals, Inc. (a)                | 1,162,676    |
| 459,180                                     | Seattle Genetics, Inc. (a)                         | 2,447,429    |
| 89,498                                      | Theravance, Inc. (a)                               | 2,764,593    |
| 226,760                                     | Therion Biologics Corporation (Restricted) (a) (e) | 2,268        |
|   |  | 27,333,966   |
| <b>Generic Pharmaceuticals 8.7%</b>         |  |              |
| 152,700                                     | Barr Pharmaceuticals, Inc. (a)                     | 7,653,324    |
| 571,394                                     | Impax Laboratories, Inc. (a) (e)                   | 4,479,729    |
| 54,700                                      | K-V Pharmaceutical Co. (a)                         | 1,300,766    |
| 108,000                                     | Laboratory Corporation of America Holdings (a)     | 7,934,760    |
| 79,500                                      | Medicis Pharmaceutical Corporation                 | 2,792,835    |
| 331,269                                     | Teva Pharmaceutical Industries, Ltd. (f)           | 10,295,840   |
|   |  | 34,457,254   |
| <b>Healthcare Services 6.9%</b>             |  |              |
| 39,100                                      | Allergan, Inc.                                     | 4,681,834    |
| 75,000                                      | Allscripts Healthcare Solutions, Inc. (a)          | 2,024,250    |
| 222,222                                     | Aveta, Inc. (Restricted) (a) (e)                   | 3,555,552    |
| 26,125                                      | Dako A/S (Restricted) (e) (g)                      | 271,961      |
| 147,000                                     | Eclipsys Corporation (a)                           | 3,022,320    |
| 338,684                                     | Emageon, Inc. (a)                                  | 5,202,186    |
| 141,000                                     | Medco Health Solutions, Inc. (a)                   | 7,535,040    |
| 62,545                                      | National Medical Health Card Systems, Inc. (a)     | 738,657      |

| SHARES                                       |  | VALUE                 |
|--|--|-----------------------|
| <b>COMMON STOCKS AND WARRANTS continued</b>  |  |                       |
| <b>Healthcare Services continued</b>         |  |                       |
| 306,208                                      | Syntiro Healthcare Services (Restricted) (a) (e)       | \$ 306<br>27,032,106  |
| <b>Medical Devices and Diagnostics 16.1%</b> |  |                       |
| 142,530                                      | Adeza Biomedical Corporation (a)                       | 2,125,122             |
| 611,850                                      | Align Technology, Inc. (a)                             | 8,547,545             |
| 347,000                                      | American Medical Systems Holdings Inc. (a)             | 6,426,440             |
| 402,122                                      | Conor Medsystems, Inc. (a)                             | 12,598,482            |
| 123,590                                      | Cytoc Corporation (a)                                  | 3,497,597             |
| 170,300                                      | DJO Incorporated (a)                                   | 7,292,246             |
| 81,495                                       | IDEXX Laboratories, Inc. (a)                           | 6,462,554             |
| 35,390                                       | Inverness Medical Innovations, Inc. (a)                | 1,369,593             |
| 160,000                                      | Masimo Corporation (Restricted) (e)                    | 1,600                 |
| 830,292                                      | Medwave Inc. (a) (b) (e)                               | 409,334               |
| 207,573                                      | Medwave Inc. warrants (expiration 8/21/11) (a) (b) (e) | 0                     |
| 743,875                                      | Orthovita, Inc. (a)                                    | 2,700,266             |
| 140,000                                      | Quest Diagnostics, Inc.                                | 7,420,000             |
| 208,529                                      | Songbird Hearing, Inc. (Restricted) (a) (e)            | 2,085                 |
| 533,987                                      | VNUS Medical Technologies, Inc. (a)                    | 4,741,805             |
|  |  | 63,594,669            |
|  | <b>TOTAL COMMON STOCKS AND WARRANTS</b>                |                       |
|  | <b>(Cost \$285,597,344)</b>                            | <b>\$ 317,466,142</b> |

**PRINCIPAL  
AMOUNT**

|                                    |   |                       |
|------------------------------------|---|-----------------------|
| <b>SHORT-TERM INVESTMENTS 5.4%</b> |   |                       |
| \$ 19,300,000                      | American Express Corporation;<br>5.00% due 01/02/07       | 19,297,319            |
| 2,000,000                          | United Parcel Service America Inc.;<br>5.15% due 01/05/07 | 1,998,856             |
|                                    | <b>TOTAL SHORT-TERM INVESTMENTS</b>                       |                       |
|                                    | <b>(Cost \$21,296,175)</b>                                | <b>\$ 21,296,175</b>  |
|                                    | <b>TOTAL INVESTMENTS - 101%</b>                           |                       |
|                                    | <b>(Cost \$375,855,098)</b>                               | <b>\$ 397,534,085</b> |
|                                    | <b>OTHER LIABILITIES IN EXCESS OF ASSETS - (1)%</b>       | <b>(3,876,291)</b>    |
|                                    | <b>NET ASSETS 100%</b>                                    | <b>\$ 393,657,794</b> |

- (a) Non-income producing security.  
(b) Affiliated issuers in which the Fund holds 5% or more of the voting securities (Total Market Value of \$22,482,860).  
(c) Includes 321,000 non-voting shares.  
(d) Variable maturity.  
(e) Security fair valued by the Valuation Committee of the Board of Trustees.  
(f) American Depository Receipt.  
(g) Foreign Security.

Edgar Filing: H&Q HEALTHCARE INVESTORS - Form N-Q

Investment Securities Valuation - Investments traded on national securities exchanges or in the over-the-counter market that are National Market System securities are valued at the last sale price or, lacking any sales, at the mean between the last bid and asked prices. Other over-the-counter securities are valued at the most recent bid prices as obtained from one or more dealers that make markets in the securities. Exchange-traded investments for which market quotations are not readily available are valued at fair value as determined in good faith by the Trustees of the Fund. The fair value of venture capital and other restricted securities is determined in good faith by the Trustees. However, because of the uncertainty of fair valuations these estimated values may differ significantly from the values that would have been used had a ready market for these securities existed, and the differences could be material. Each such fair value determination is based on a consideration of relevant factors. Factors the Trustees consider may include (i) the existence of any contractual restrictions on the disposition of securities; (ii) information obtained from the issuer which may include an analysis of the company's financial statements, the company's products or intended markets or the company's technologies; and (iii) the price of a security negotiated at arm's length in an issuer's completed subsequent round of financing. Short-term investments with maturity of 60 days or less are valued at amortized cost.

Venture Capital and Other Restricted Securities - The following table details the acquisition date, cost, carrying value per unit, and value of the Fund's venture capital and other restricted securities at December 31, 2006, as determined by the Trustees of the Fund. The Fund may invest up to 40% of its net assets in venture capital and other restricted securities. The values of these securities represent 16% of the Fund's net assets at December 31, 2006. The Fund on its own does not have the right to demand that such securities be registered.

| Security (h)                  | Acquisition Date | Cost         | Carrying Value per Unit | Value        |
|-------------------------------|------------------|--------------|-------------------------|--------------|
| Agensys, Inc.                 |                  |              |                         |              |
| Series C Cvt. Pfd.            | 2/14/02, 9/27/05 | \$ 3,307,024 | \$ 2.95                 | \$ 3,300,300 |
| Agilix Corporation            |                  |              |                         |              |
| Series B Cvt. Pfd.            | 11/8/01          | 2,495,500    | 0.06                    | 141,809      |
| Aveta, Inc.                   |                  |              |                         |              |
| Restricted Common             | 12/21/05         | 2,999,997    | 16.00                   | 3,555,552    |
| CardioNet, Inc.               |                  |              |                         |              |
| Series C Cvt. Pfd.            | 5/3/01 - 3/25/03 | 5,552,574    | 3.50                    | 5,520,004    |
| Warrants (expiration 5/01/11) | 5/1/06           | 0            | 0.00                    | 0            |
| Warrants (expiration 8/29/11) | 8/29/06          | 0            | 0.00                    | 0            |
| Convertible Note              | 8/15/05, 8/29/06 | 317,562      | 1.00                    | 324,328      |
| Ceres, Inc.                   |                  |              |                         |              |
| Series C Cvt. Pfd.            | 12/23/98         | 1,502,620    | 6.00                    | 2,250,000    |
| Series C-1 Cvt. Pfd.          | 3/31/01          | 111,508      | 6.00                    | 193,158      |
| Series D Cvt. Pfd.            | 3/14/01          | 1,668,294    | 6.00                    | 1,680,630    |
| Concentric Medical, Inc.      |                  |              |                         |              |
| Series B Cvt. Pfd.            | 5/7/02, 1/24/03  | 3,329,210    | 1.40                    | 6,794,116    |
| Series C Cvt. Pfd.            | 12/19/03         | 1,500,000    | 1.40                    | 2,441,860    |
| Series D Cvt. Pfd.            | 9/30/05          | 957,768      | 1.40                    | 956,200      |
| Cougar Biotechnology Inc.     |                  |              |                         |              |
| Series A Cvt. Pfd.            | 3/30/06          | 1,463,482    | 4.50                    | 1,462,493    |
| Restricted Common             | 3/30/06-12/31/06 | 211,358      | 4.50                    | 211,263      |
| CytoLogix Corporation         |                  |              |                         |              |
| Series A Cvt. Pfd.            | 1/13/98-7/21/99  | 1,622,895    | 0.83                    | 399,984      |
| Series B Cvt. Pfd.            | 1/11/01          | 760,284      | 0.83                    | 187,382      |
| Convertible Note              | 5/29/02          | 168,337      | 1.00                    | 168,337      |
| Dako A/S                      |                  |              |                         |              |
| Restricted Common             | 6/14/04          | 1,102,920    | 10.41                   | 271,961      |
| EPR, Inc.                     |                  |              |                         |              |
| Series A Cvt. Pfd.            | 3/9/94           | 1,000,409    | 0.01                    | 2,222        |
| Galileo Pharmaceuticals, Inc. |                  |              |                         |              |
| Series F-1 Cvt. Pfd.          | 8/18/00          | 3,003,840    | 0.00                    | 140          |
| I-trax, Inc.                  |                  |              |                         |              |
| Series A Cvt. Pfd.            | 3/18/04          | 4,003,650    | 36.57                   | 5,851,617    |



Edgar Filing: H&Q HEALTHCARE INVESTORS - Form N-Q

|                                       |          |           |       |           |
|---------------------------------------|----------|-----------|-------|-----------|
| Labcyte, Inc.                         |          |           |       |           |
| Series C Cvt. Pfd.                    | 7/18/05  | 1,923,506 | 0.52  | 1,920,000 |
| Magellan Biosciences, Inc.            |          |           |       |           |
| Series A Cvt. Pfd.                    | 11/28/06 | 2,950,000 | 1.00  | 2,950,000 |
| Masimo Corporation                    |          |           |       |           |
| Series D Cvt. Pfd.                    | 8/14/96  | 1,120,657 | 11.00 | 1,760,000 |
| Restricted Common                     | 3/31/98  | 0         | 0.01  | 1,600     |
| OmniSonics Medical Technologies, Inc. |          |           |       |           |
| Series B Cvt. Pfd.                    | 5/24/01  | 2,409,023 | 0.84  | 1,365,061 |
| Series C Cvt. Pfd.                    | 10/1/03  | 1,800,336 | 0.84  | 1,294,273 |

Edgar Filing: H&Q HEALTHCARE INVESTORS - Form N-Q

| Security (h)                         | Acquisition Date   | Cost          | Carrying Value per Unit | Value         |
|--------------------------------------|--------------------|---------------|-------------------------|---------------|
| <b>PHT Corporation</b>               |                    |               |                         |               |
| Series D Cvt. Pfd.                   | 7/23/01            | 4,205,754     | 0.78                    | 4,200,000     |
| Series E Cvt. Pfd.                   | 9/12/03 - 10/14/04 | 941,669       | 0.78                    | 939,506       |
| <b>Raven biotechnologies, Inc.</b>   |                    |               |                         |               |
| Series B Cvt. Pfd.                   | 12/12/00           | 3,001,725     | 0.83                    | 1,509,091     |
| Series C Cvt. Pfd.                   | 11/26/02           | 2,331,600     | 0.83                    | 2,331,600     |
| Series D Cvt. Pfd.                   | 6/23/05            | 1,205,415     | 0.29                    | 1,200,000     |
| <b>Songbird Hearing, Inc.</b>        |                    |               |                         |               |
| Restricted Common                    | 12/14/00           | 3,004,861     | 0.01                    | 2,085         |
| <b>Syntiro Healthcare Services</b>   |                    |               |                         |               |
| Restricted Common                    | 2/5/97             | 1,200,325     | 0.001                   | 306           |
| <b>TargeGen, Inc.</b>                |                    |               |                         |               |
| Series C Cvt. Pfd.                   | 8/30/05            | 2,763,495     | 1.30                    | 2,760,000     |
| <b>Therion Biologics Corporation</b> |                    |               |                         |               |
| Series A Cvt. Pfd.                   | 8/20/96-10/16/96   | 444,850       | 0.10                    | 474           |
| Series B Cvt. Pfd.                   | 6/22/99            | 901,393       | 0.01                    | 2,400         |
| Series C Cvt. Pfd.                   | 9/26/01-10/15/01   | 1,529,348     | 0.10                    | 4,077         |
| Series C-2 Units                     | 8/13/03            | 59,998        | 0.01                    | 334           |
| Warrants (expiration 8/18/08)        | 8/18/03            | 0             | 0.00                    | 0             |
| Sinking Fund Cvt. Pfd.               | 10/18/94-8/20/96   | 721,291       | 0.01                    | 361           |
| Restricted Common                    | 7/12/90-1/25/96    | 511,365       | 0.01                    | 2,268         |
| <b>TherOx, Inc.</b>                  |                    |               |                         |               |
| Series H Cvt. Pfd.                   | 9/11/00            | 3,002,506     | 3.86                    | 251,803       |
| Series I Cvt. Pfd.                   | 7/8/05             | 579,407       | 3.86                    | 577,100       |
| Warrants (expiration 1/26/10)        | 1/26/05            | 0             | 0.00                    | 0             |
| Warrants (expiration 6/09/09)        | 6/9/04             | 0             | 0.00                    | 0             |
| <b>Xanthus Life Sciences, Inc.</b>   |                    |               |                         |               |
| Series B Cvt. Pfd.                   | 12/5/03,11/15/06   | 4,004,480     | 1.00                    | 4,001,078     |
| <b>Zyomyx, Inc.</b>                  |                    |               |                         |               |
| Series A New Cvt. Pfd.               | 1/12/04            | 299,700       | 0.10                    | 30,000        |
| Series B New Cvt. Pfd.               | 2/19/99, 1/12/04   | 468           | 0.10                    | 30            |
| New Restricted Common                | 2/19/99 - 7/22/04  | 3,602,065     | 0.01                    | 3,000         |
|                                      |                    | \$ 81,594,469 |                         | \$ 62,819,803 |

(h) See Schedule of Investments and corresponding footnotes for more information on each issuer.

Edgar Filing: H&Q HEALTHCARE INVESTORS - Form N-Q

Federal Income Tax Cost - At December 31, 2006, the total cost of securities for Federal income tax purposes was \$375,855,098. The net unrealized gain on securities held by the Fund was \$21,678,988, including gross unrealized gain of \$67,691,011 and gross unrealized loss of \$46,012,023.

Affiliate Transactions An affiliate issuer is a company in which the Fund holds 5% or more of the voting securities. Transactions with such companies during the three months ended December 31, 2006 were as follows:

| Issuer                   | Value on<br>October 1, 2006 | Purchases | Sales | Income   | Value on<br>December 31, 2006 |
|--------------------------|-----------------------------|-----------|-------|----------|-------------------------------|
| Agilix Corporation       | \$ 141,809                  | \$        | \$    | \$       | \$ 141,809                    |
| CardioNet, Inc.          | 5,844,332                   |           |       | 6,539    | 5,844,332                     |
| Concentric Medical, Inc. | 10,192,176                  |           |       |          | 10,192,176                    |
| CytoLogix Corporation    | 755,703                     |           |       | 2,841    | 755,703                       |
| Medwave, Inc.            | 1,136,255                   |           |       |          | 409,334                       |
| PHT Corporation          | 5,139,506                   |           |       |          | 5,139,506                     |
|                          | \$ 23,209,781               | \$        | \$    | \$ 9,380 | \$ 22,482,860                 |

**Item 2. Controls and Procedures.**

(a.) The registrant's principal executive officer and principal financial officer have concluded, based on their evaluation of the registrant's disclosure controls and procedures as conducted within 90 days of the filing date of this report, that these disclosure controls and procedures are adequately designed and are operating effectively to ensure that information required to be disclosed by the registrant on Form N-Q is (i) accumulated and communicated to the investment company's management, including its certifying officers, to allow timely decisions regarding required disclosure; and (ii) recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.

(b.) There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

**Item 3. Exhibits.**

Separate certifications for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the Act (17 CFR 270.30a-2(a)). Filed herewith.

---

**SIGNATURES**

Pursuant to the requirements of the Securities and Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) H&Q Healthcare Investors  
By (Signature and Title) /s/ Daniel Omstead  
Daniel Omstead, President  
Date 3/1/07

Pursuant to the requirements of the Securities and Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title) /s/ Kathleen Eckert  
Kathleen Eckert, Treasurer  
Date 3/1/07

---