**H&Q LIFE SCIENCES INVESTORS** Form N-O February 29, 2008

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

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### FORM N-Q

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

Investment Company Act file number

811-06565

**H&Q** Life Sciences 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: 12/31/07

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-% (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 LIFE SCIENCES INVESTORS**

### SCHEDULE OF INVESTMENTS

### **DECEMBER 31, 2007**

(Unaudited)

### CONVERTIBLE SECURITIES AND WARRANTS 13.2% of Net Assets

SHARES		VA	LUE
	Convertible Preferred (Restricted)(c) 12.9%		
	Drug Discovery Technologies 1.0%		
1,587,302	Agilix Corporation Series B (a) (b)	\$	94,540
250,000	Ceres, Inc. Series C (a)		1,625,000
21,462	Ceres, Inc. Series C-1 (a)		139,503
175,540	Ceres, Inc. Series D (a)		1,141,010
28,385	Ceres, Inc. Series F (a)		184,502
5,677	Ceres, Inc. warrants (expiration 9/05/15) (a)		0
200,000	Zyomyx, Inc. Series A New (a)		20,000
200	Zyomyx, Inc. Series B New (a)		20
	Emerging Biopharmaceuticals 4.2%		
744,921	Agensys, Inc. Series C (a)		6,777,291
138,261	Agensys, Inc. Series D (a)		1,257,899
1,212,121	Raven biotechnologies, Inc. Series B (a)		251,515
1,872,772	Raven biotechnologies, Inc. Series C (a)		388,600
2,722,014	Raven biotechnologies, Inc. Series D (a)		200,068
1,415,385	TargeGen, Inc. Series C (a)		1,226,672
407,825	TargeGen, Inc. Series D (a)		353,450
2,649,902	Xanthus Pharmaceuticals, Inc. Series B (a)		2,649,902
	Healthcare Services 2.6%		
635	CardioNet, Inc. Mandatorily Cvt. Pfd. (a)		661,577
1,051,429	CardioNet, Inc. Series C (a)		3,680,001
35,254	CardioNet, Inc. warrants (expiration 5/01/11) (a)		0
1,390	CardioNet, Inc. warrants (expiration 8/29/11) (a)		0
322,168	CytoLogix Corporation Series A (a) (b)		3,222
151,420	CytoLogix Corporation Series B (a) (b)		475,459
3,589,744	PHT Corporation Series D (a) (b)		2,800,000
802,996	PHT Corporation Series E (a) (b)		626,337
	Medical Devices and Diagnostics 5.1%		
3,235,293	Concentric Medical, Inc. Series B (a) (b)		4,529,410
1,162,790	Concentric Medical, Inc. Series C (a) (b)		1,627,906
455,333	Concentric Medical, Inc. Series D (a) (b)		637,466
177,778	EPR, Inc. Series A (a)		1,778
1,592,852	FlowCardia, Inc. Series C (a)		1,708,334
2,446,016	Labcyte Inc. Series C (a)		1,280,000
2,050,000	Magellan Biosciences, Inc. Series A (a)		2,050,000
1,031,992	OmniSonics Medical Technologies, Inc. Series A-1 (a)		781,218
877,747	OmniSonics Medical Technologies, Inc. Series B-1 (a)		664,454
43,478	TherOx, Inc. Series H (a)		167,869
99,646	TherOx, Inc. Series I (a)		384,733
2,813	TherOx, Inc. warrants (expiration 1/26/10) (a)		0
5,427	TherOx, Inc. warrants (expiration 6/09/09) (a)		0
640,625	Xoft, Inc. Series D (a)		2,050,000
		\$	40,439,736

PRINCIPAL			
AMOUNT			VALUE
		Convertible Notes 0.3%	
		Drug Discovery Technologies 0.1%	
\$	700,000	deCODE Genetics, Inc., 3.50% due 2011	\$ 460,250
		Emerging Biopharmaceuticals 0.1%	
	29,767	Raven biotechnologies Convertible Note, 5.00% due 2009 (Restricted) (c)	29,767
	198,971	Xanthus Pharmaceuticals, Inc. Promissory Note, 8.00% due 2008 (Restricted) (c)	198,971
		Healthcare Services 0.1%	
	352,908	CytoLogix Subordinated Promissory Note, 6.24% due 2010 (Restricted) (b) (c)	352,908
			\$ 1,041,896
		TOTAL CONVERTIBLE SECURITIES AND WARRANTS	
		(Cost \$42,742,859)	\$ 41,481,632

### SHARES

	COMMON STOCKS AND WARRANTS 81.4%	
	Biopharmaceuticals 31.4%	
83,150	Adams Respiratory Therapeutics, Inc. (a)	4,967,381
135,182	Affymax Inc. (a)	3,022,670
320,571	Akorn, Inc. (a)	2,352,991
108,889	Akorn, Inc. warrants (expiration 3/08/11) (a) (c)	211,245
48,900	Alnylam Pharmaceuticals, Inc. (a)	1,422,012
99,357	Amgen Inc. (a)	4,614,139
81,735	Amylin Pharmaceuticals, Inc. (a)	3,024,195
48,700	Biogen Idec Inc. (a)	2,772,004
202,700	BioMarin Pharmaceuticals, Inc. (a)	7,175,580
200,000	Cadence Pharmaceuticals, Inc. (a)	2,972,000
756,272	Critical Therapeutics, Inc. (a)	960,465
159,672	Critical Therapeutics, Inc. warrants (expiration 6/06/10) (a) (c)	19,161
74,053	Cubist Pharmaceuticals, Inc. (a)	1,518,827
82,000	Forest Laboratories, Inc. (a)	2,988,900
23,370	Genentech, Inc. (a)	1,567,426
79,257	Genzyme Corporation (a)	5,899,891
272,650	Gilead Sciences, Inc. (a)	12,544,626
68,547	Hologic, Inc. (a)	4,705,066
184,953	Inspire Pharmaceuticals, Inc. (a)	1,106,019
3,615	Intuitive Surgical, Inc. (a)	1,173,068
83,697	Martek Biosciences Corporation (a)	2,475,757
140,600	Medarex, Inc. (a)	1,465,052
232,450	Medicines Company (a)	4,453,742
51,500	Mentor Corporation	2,013,650

COMMON STOCKS AND WARRANTS continued  Biopharmaceuticals continued  80,650 Merck & Co., Inc. \$  175,880 MiddleBrook Pharmaceuticals, Inc. warrants (expiration 4/29/10) (a) (c)  77,895 Myriad Genetics, Inc. (a)	4,686,571 14,070 3,615,886
80,650 Merck & Co., Inc. \$ 175,880 MiddleBrook Pharmaceuticals, Inc. warrants (expiration 4/29/10) (a) (c) 77,895 Myriad Genetics, Inc. (a)	14,070 3,615,886
175,880 MiddleBrook Pharmaceuticals, Inc. warrants (expiration 4/29/10) (a) (c) 77,895 Myriad Genetics, Inc. (a)	14,070 3,615,886
77,895 Myriad Genetics, Inc. (a)	3,615,886
77,895 Myriad Genetics, Inc. (a)	
106,170 Omrix Biopharmaceuticals, Inc. (a)	3,688,346
367,105 Synta Pharmaceuticals Corp. (a)	2,459,604
145,965 Vertex Pharmaceuticals, Inc. (a)	3,390,767
88,100 Xenoport, Inc. (a)	4,923,028
	98,204,139
Biotechnology 1.2%	
328,000 Athersys, Inc. (a) (c)	1,288,384
82,000 Athersys, Inc. warrants (expiration 6/08/12) (a) (c)	91,840
339,950 Momenta Pharmaceuticals, Inc. (a)	2,427,243
	3,807,467
Drug Delivery 1.1%	
227,550 Alkermes, Inc. (a) (f)	3,547,505
Drug Discovery Technologies 4.0%	
162,288 Avalon Pharmaceuticals, Inc. (a)	514,453
88,780 Celgene Corporation (a)	4,102,524
46,941 Cougar Biotechnology, Inc. (a)	1,534,971
1,601,039 MZT Holdings, Inc. (a) (b)	153,059
1,846,154 MZT Holdings, Inc. warrants (expiration 1/17/11) (a) (b) (c)	0
952,381 MZT Holdings, Inc. warrants (expiration 1/22/12) (a) (b) (c)	0
32,050 Shire Plc (d)	2,209,847
40,700 United Therapeutics Corporation (a)	3,974,355
200,000 Zyomyx, Inc. (Restricted) (a) (c)	2,000
	12,491,209
Emerging Biopharmaceuticals 5.8%	
522,470 ACADIA Pharmaceuticals Inc. (a)	5,783,743
90,552 DOV Pharmaceutical, Inc. warrants (expiration 12/31/09) (a) (c)	1,811
541,430 Exelixis, Inc. (a)	4,672,541
814,191 Lexicon Pharmaceuticals, Inc. (a)	2,466,999
242,522 NitroMed, Inc. (a)	244,947
200,000 Sangamo BioSciences, Inc. (a)	2,618,000
238,760 XTENT, Inc. (a)	2,354,173
	18,142,214
Generic Pharmaceuticals 5.5%	0.450.155
144,500 Caraco Pharmaceutical Laboratories, Ltd. (a)	2,478,175
144,411 Impax Laboratories, Inc. (a)	1,566,859
330,800 Mylan Inc.	4,651,048
183,708 Teva Pharmaceutical Industries, Ltd. (d)	8,538,748
	17,234,830

SHARES		VA	ALUE
	COMMON STOCKS AND WARRANTS continued		
	Healthcare Services 9.1%		
28,000	Aetna Inc.	\$	1,616,440
148,148	Aveta, Inc. (Restricted) (a) (c)		1,481,480
65,600	Centene Corporation (a)		1,800,064
30,478	Dako A/S (Restricted) (c) (e)		879,595
119,740	HealthExtras, Inc. (a)		3,122,819
66,524	ICON Plc (a) (d)		4,115,175
28,500	Medco Health Solutions, Inc. (a)		2,889,900
79,020	National Medical Health Card Systems, Inc. (a)		746,739
48,700	PAREXEL International Corporation (a)		2,352,210
204,139	Syntiro Healthcare Services (Restricted) (a) (c)		204
29,000	UnitedHealth Group, Inc.		1,687,800
40,250	WellPoint, Inc. (a)		3,531,133
885,000	Zix Corporation (a)		4,071,000
			28,294,559
	Medical Devices and Diagnostics 23.3%		
119,960	Align Technology, Inc. (a)		2,000,933
132,090	Applera Corporation- Applied Biosystems Group		4,480,493
82,050	Baxter International Inc.		4,763,002
88,740	Becton, Dickinson and Company		7,416,889
77,000	BioForm Medical, Inc. (a)		525,910
74,292	IDEXX Laboratories, Inc. (a)		4,355,740
102,343	Inverness Medical Innovations, Inc. (a)		5,749,630
51,050	Laboratory Corporation of America Holdings (a)		3,855,806
20,500	Masimo Corporation		808,725
390,000	Masimo Corporation (Restricted) (c)		14,616,225
130,000	Masimo Laboratories, Inc. (Restricted) (a) (c)		33,696
447,080	Medwave, Inc. (a) (c)		0
111,770	Medwave, Inc. warrants (expiration 8/21/11) (a) (c)		0
228,012	NeuroMetrix, Inc. (a)		2,097,710
62,005	OmniSonics Medical Technologies, Inc. (Restricted) (a) (c)		620
52,110	Patterson Companies, Inc. (a)		1,769,135
99,600	PerkinElmer, Inc.		2,591,592
62,000	ResMed Inc. (a)		3,256,860
47,600	Respironics, Inc. (a)		3,116,848
139	Songbird Hearing, Inc. (Restricted) (a) (c)		93
44,225	Stryker Corporation		3,304,492
110,840	Thermo Fisher Scientific Inc. (a)		6,393,251
115,363	VNUS Medical Technologies, Inc. (a)		1,675,071
	moment governous among the service of the service o		72,812,721
	TOTAL COMMON STOCKS AND WARRANTS (Cost \$214,842,254)	\$	254,534,644

PRINCIPAL AMOUNT				VALUE
121110 0111		SHORT-TERM INVESTMENTS 4.4%		, iiiiii
\$	13,656,000	American Express Corporation; 4.00% 4.15% due 01/03/08 01/04/0	08 \$	13,640,390
		TOTAL SHORT-TERM INVESTMENTS		
		(Cost \$13,640,390)	\$	13,640,390
		TOTAL INVESTMENTS 99.0%		
		(Cost \$271,225,503)	\$	309,656,666
		OTHER ASSETS IN EXCESS OF LIABILITIES - 1.0%	\$	3,090,356
		NET ASSETS - 100%	\$	312,747,022

- (a) Non-income producing security.
- (b) Affiliated issuers in which the Fund holds 5% or more of the voting securities (Total Market Value of \$11,300,307).
- (c) Security fair valued by the Valuation Committee of the Board of Trustees.
- (d) American Depository Receipt.
- (e) Foreign Security.
- (f) A portion of security is pledged as collateral for call options.

#### SCHEDULE OF WRITTEN OPTIONS

NUMBER OF CONTRACTS (100 SHARES EACH)	CALL OPTION WRITTEN	EXPIRATION DATE	CURRENT VALUE	
61	Alkermes, Inc., strike @ 17.5	Jan - 2008	\$	(915)
			\$	(915)

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Investment 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. Publicly-traded investments for which market quotations are not readily available or whose quoted price may otherwise not reflect fair value 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 condition, 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 Fund may invest in venture capital and other restricted securities if these securities would currently comprise of 40% or less of net assets. The value of the securities represents 19% of the Fund s net assets at December 31, 2007. 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, 2007, as determined by the Trustees of the Fund. The Fund on its own does not have the right to demand that such securities be registered.

Security (g)         Date         Cost         per Unit         Value           Agensys, Inc.         Series C Cvt. Pfd.         2/14/02, 9/27/05         \$ 2,204,684         \$ 9.10         \$ 6,777,291           Series C Cvt. Pfd.         6/28/2007         498,021         9.10         1,257,899           Agilix Corporation         2         11/8/01         1,663,667         0.06         94,540           Aveta, Inc.         8         2,003,069         10.00         1,481,480           CardioNet, Inc.         5/3/01 - 3/25/03         3,702,649         3.50         3,680,001           Series C Cvt. Pfd.         5/3/01 - 3/25/03         3,702,649         3.50         3,680,001           Mardatorily Cvt. Pfd.         8/15/05 - 3/7/07         636,912         1,041.85         661,577           Warrants (expiration 5/01/11)         5/1/06         0         0.00         0         0           Varrants (expiration 8/29/11)         8/29/06         0         0.00         0		Acquisition		Carrying Value	• 0		
Scries C Cvt. Pfd.         2/14/02, 9/27/05         2,204,684         9,10         6,777,291           Scries D Cvt. Pfd.         6/28/2007         498,021         9,10         1,257,899           Agilix Corporation         series B Cvt. Pfd.         11/8/01         1,663,667         0.06         94,540           Aveta, Inc.         series B Cvt. Pfd.         11/8/01         1,663,667         0.06         94,540           Kestricted Common         12/21/05         2,003,069         10.00         1,481,480           CardioNet, Inc.         Series C Vt. Pfd.         5/3/01 - 3/25/03         3,702,649         3.50         3,680,001           Mandatorily Cvt. Pfd.         8/15/05 - 37/107         363,912         1,041,85         661,577           Warrants (expiration 5/01/11)         5/1/06         0         0.00         0         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0         0         0           Ceres, Inc.         Series C Vt. Pfd.         3/3/101         74,339         6.50         1,625,000         6.50         1,625,000         6.50         1,941,010         6.50         1,941,010         6.50         1,141,010         6.50         1,141,010	Security (g)	Date	Cost	per Unit	Value		
Series D Cvt. Pfd.         6/28/2007         498,021         9.10         1,257,899           Agilix Corporation	<i>E J</i> ,						
Agilix Corporation         Series B Cvt. Pfd.         11/8/01         1,663,667         0.06         94,540           Aveta, Inc.         Restricted Common         12/21/05         2,003,069         10.00         1,481,480           Restricted Common         12/21/05         2,003,069         10.00         1,481,480           CardioNet, Inc.         Series C Cvt. Pfd.         5/3/01 - 3/25/03         3,702,649         3.50         3,680,001           Mandatorily Cvt. Pfd.         8/15/05 - 3/7/07         636,912         1,041.85         661,577           Warrants (expiration 5/01/11)         5/10/06         0         0.00         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Verrants (expiration 8/29/11)         8/29/06         0         0.00         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C Cvt. Pfd.         3/14/01         1,046,887         6.50         139,503           Series C Cvt. Pfd.         3/14/01         1,046,887         6.50         1,41,010           Series P Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15) </td <td></td> <td>, , , , , , , , , , , , , , , , , , , ,</td> <td>, ,</td> <td></td> <td></td>		, , , , , , , , , , , , , , , , , , , ,	, ,				
Series B Cvt. Pfd.         11/8/01         1,663,667         0.06         94,540           Aveta, Inc.		6/28/2007	498,021	9.10	1,257,899		
Aveta, Inc.	Agilix Corporation						
Restricted Common CardioNet, Inc.         12/21/05         2,003,069         10.00         1,481,480           CardioNet, Inc.         8         3,50         3,680,001           Series C Cvt. Pfd.         \$/3/01 - 3/25/03         3,702,649         3,50         3,680,001           Mandatorily Cvt. Pfd.         \$/15/05 - 3/7/07         636,912         1,041.85         661,577           Warrants (expiration \$/29/11)         \$8/29/06         0         0.00         0           Ceres, Inc.         0         0         0.00         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series D Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         12/19/03         2,220,206         1.40         4,529,410           Series B Cvt. Pfd.         9/30/05         638,586         1.40         1,627,906           Series D Cvt. Pfd.	Series B Cvt. Pfd.	11/8/01	1,663,667	0.06	94,540		
CardioNet, Inc.  Series C Cvt. Pfd. 5/3/01 - 3/25/03 3,702,649 3,50 3,680,001  Mandatorily Cvt. Pfd. 8/15/05 - 3/7/07 636,912 1,041.85 661,577  Warrants (expiration 5/01/11) 5/1/06 0 0 0.00 0 0  Warrants (expiration 8/29/11) 8/29/06 0 0 0.00 0 0  Ceres, Inc.  Series C Cvt. Pfd. 12/23/98 1,000,950 6.50 1,625,000  Series C Cvt. Pfd. 3/31/01 74,339 6.50 139,503  Series D Cvt. Pfd. 3/14/01 1,046,887 6.50 1,141,010  Series F Cvt. Pfd. 9/5/07 186,335 6.50 184,502  Warrants (expiration 9/05/15) 9/5/07 0 0.00 0 0  Cores, Inc.  Series B C vt. Pfd. 12/23/98 1,000,950 6.50 1,625,000  Series C Vt. Pfd. 3/14/01 1,046,887 6.50 1,141,010  Series P Cvt. Pfd. 9/5/07 186,335 6.50 1,411,010  Series P Cvt. Pfd. 9/5/07 1,000 0.00 0  Concentric Medical, Inc.  Series B C vt. Pfd. 12/19/03 1,000,192 1,40 1,627,906  Series D C vt. Pfd. 9/30/05 638,586 1,40 637,466  CytoLogix Corporation  Series A C vt. Pfd. 1/11/01 509,067 3,14 475,459  Subordinated Promissory Note 11/29/07 364,291 100.00 352,908  Dako A/S  Restricted Common 6/14/04 870,888 28.86 879,595  EPR, Inc.  Series A C vt. Pfd. 3/9/94 800,331 0.01 1,778  FlowCardia, Inc.  Series C C vt. Pfd. 8/29/07 1,719,754 1.07 1,708,334	Aveta, Inc.						
Series C Cvt. Pfd.         5/3/01 - 3/25/03         3,702,649         3.50         3,680,001           Mandatorily Cvt. Pfd.         8/15/05 - 3/7/07         636,912         1,041.85         661,577           Warrants (expiration 5/01/11)         5/1/06         0         0.00         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Ceres, Inc.         0         0.00         0.00         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series D Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,41,010           Series D Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           Cyto- Pfd.	Restricted Common	12/21/05	2,003,069	10.00	1,481,480		
Mandatorily Cvt. Pfd.         8/15/05 - 3/7/07         636,912         1,041.85         661,577           Warrants (expiration 5/01/11)         5/1/06         0         0.00         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Ceres, Inc.         0         0         0.00         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         0         0         0         0           Series B Cvt. Pfd.         12/19/03         1,000,192         1.40         4,529,410           Series C Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         0         0         0         0           Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567 <td>CardioNet, Inc.</td> <td></td> <td></td> <td></td> <td></td>	CardioNet, Inc.						
Warrants (expiration 5/01/11)         5/1/06         0         0.00         0           Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Ceres, Inc.         8/29/06         0         0.00         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         0         0         0         0           Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series C Cvt. Pfd.         9/30/05         638,586         1.40         1,627,906           Series D Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series A Cvt. Pfd.         1/11/90 <td>Series C Cvt. Pfd.</td> <td>5/3/01 - 3/25/03</td> <td>3,702,649</td> <td></td> <td>3,680,001</td>	Series C Cvt. Pfd.	5/3/01 - 3/25/03	3,702,649		3,680,001		
Warrants (expiration 8/29/11)         8/29/06         0         0.00         0           Ceres, Inc.         0         0.00         0         0           Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C -1 Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0         0           Concentric Medical, Inc.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410         0	Mandatorily Cvt. Pfd.	8/15/05 - 3/7/07	636,912	1,041.85	661,577		
Ceres, Inc.         Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C-1 Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         5         0         1,627,906         0         0           Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410         1,627,906           Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         0         0         0         0         0           Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/1/29/07         364,291         100.00         352,908           Dako A/S         8         28.86         879,595	Warrants (expiration 5/01/11)	5/1/06	0	0.00	0		
Series C Cvt. Pfd.         12/23/98         1,000,950         6.50         1,625,000           Series C-1 Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.           Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series B Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         6         1,11/01         509,667         3.14         475,459           Series A Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         8         28.86         879,595         579,595           EPR, Inc.         8         8         8         8	Warrants (expiration 8/29/11)	8/29/06	0	0.00	0		
Series C-1 Cvt. Pfd.         3/31/01         74,339         6.50         139,503           Series D Cvt. Pfd.         3/14/01         1,046,887         6.50         1,141,010           Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         0         0.00         0         0           Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         4,529,410           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         637,466         1.40         637,466           CytoLogix Corporation         1/13/98-7/21/99         1,078,567         0.01         3,222           Series A Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         8         28.86         879,595           EPR, Inc.         8         8         28.86	Ceres, Inc.						
Series D Cvt. Pfd.       3/14/01       1,046,887       6.50       1,141,010         Series F Cvt. Pfd.       9/5/07       186,335       6.50       184,502         Warrants (expiration 9/05/15)       9/5/07       0       0.00       0         Concentric Medical, Inc.       Series B Cvt. Pfd.       5/7/02, 1/24/03       2,220,206       1.40       4,529,410         Series C Cvt. Pfd.       12/19/03       1,000,192       1.40       1,627,906         Series D Cvt. Pfd.       9/30/05       638,586       1.40       637,466         CytoLogix Corporation       Series A Cvt. Pfd.       1/13/98-7/21/99       1,078,567       0.01       3,222         Series B Cvt. Pfd.       1/11/01       509,067       3.14       475,459         Subordinated Promissory Note       11/29/07       364,291       100.00       352,908         Dako A/S       Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.       Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.       Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Series C Cvt. Pfd.	12/23/98	1,000,950	6.50	1,625,000		
Series F Cvt. Pfd.         9/5/07         186,335         6.50         184,502           Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.         Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.         Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Series C-1 Cvt. Pfd.	3/31/01	74,339	6.50	139,503		
Warrants (expiration 9/05/15)         9/5/07         0         0.00         0           Concentric Medical, Inc.         Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S           Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.           Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.           Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Series D Cvt. Pfd.	3/14/01	1,046,887	6.50	1,141,010		
Concentric Medical, Inc.         Series B Cvt. Pfd.       5/7/02, 1/24/03       2,220,206       1.40       4,529,410         Series C Cvt. Pfd.       12/19/03       1,000,192       1.40       1,627,906         Series D Cvt. Pfd.       9/30/05       638,586       1.40       637,466         CytoLogix Corporation       Series A Cvt. Pfd.       1/13/98-7/21/99       1,078,567       0.01       3,222         Series B Cvt. Pfd.       1/11/01       509,067       3.14       475,459         Subordinated Promissory Note       11/29/07       364,291       100.00       352,908         Dako A/S         Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.         Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.         Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Series F Cvt. Pfd.	9/5/07	186,335	6.50	184,502		
Series B Cvt. Pfd.         5/7/02, 1/24/03         2,220,206         1.40         4,529,410           Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.         Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.         Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Warrants (expiration 9/05/15)	9/5/07	0	0.00	0		
Series C Cvt. Pfd.         12/19/03         1,000,192         1.40         1,627,906           Series D Cvt. Pfd.         9/30/05         638,586         1.40         637,466           CytoLogix Corporation         Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.         Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.         Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Concentric Medical, Inc.						
Series D Cvt. Pfd.       9/30/05       638,586       1.40       637,466         CytoLogix Corporation       Series A Cvt. Pfd.       1/13/98-7/21/99       1,078,567       0.01       3,222         Series B Cvt. Pfd.       1/11/01       509,067       3.14       475,459         Subordinated Promissory Note       11/29/07       364,291       100.00       352,908         Dako A/S       Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.         Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.         Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Series B Cvt. Pfd.	5/7/02, 1/24/03	2,220,206	1.40	4,529,410		
CytoLogix Corporation         Series A Cvt. Pfd.       1/13/98-7/21/99       1,078,567       0.01       3,222         Series B Cvt. Pfd.       1/11/01       509,067       3.14       475,459         Subordinated Promissory Note       11/29/07       364,291       100.00       352,908         Dako A/S         Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.         Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.         Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Series C Cvt. Pfd.	12/19/03	1,000,192	1.40	1,627,906		
Series A Cvt. Pfd.         1/13/98-7/21/99         1,078,567         0.01         3,222           Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.         Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.         Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Series D Cvt. Pfd.	9/30/05	638,586	1.40	637,466		
Series B Cvt. Pfd.         1/11/01         509,067         3.14         475,459           Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S           Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.           Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.           Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	CytoLogix Corporation						
Subordinated Promissory Note         11/29/07         364,291         100.00         352,908           Dako A/S         Restricted Common         6/14/04         870,888         28.86         879,595           EPR, Inc.         Series A Cvt. Pfd.         3/9/94         800,331         0.01         1,778           FlowCardia, Inc.         Series C Cvt. Pfd.         8/29/07         1,719,754         1.07         1,708,334	Series A Cvt. Pfd.	1/13/98-7/21/99	1,078,567	0.01	3,222		
Dako A/S       Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.       Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.       Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Series B Cvt. Pfd.	1/11/01	509,067	3.14	475,459		
Restricted Common       6/14/04       870,888       28.86       879,595         EPR, Inc.       Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.       Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Subordinated Promissory Note	11/29/07	364,291	100.00	352,908		
EPR, Inc.         Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.       Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Dako A/S						
Series A Cvt. Pfd.       3/9/94       800,331       0.01       1,778         FlowCardia, Inc.       Series C Cvt. Pfd.       8/29/07       1,719,754       1.07       1,708,334	Restricted Common	6/14/04	870,888	28.86	879,595		
FlowCardia, Inc. Series C Cvt. Pfd. 8/29/07 1,719,754 1.07 1,708,334	EPR, Inc.						
Series C Cvt. Pfd. 8/29/07 1,719,754 1.07 1,708,334	Series A Cvt. Pfd.	3/9/94	800,331	0.01	1,778		
, , , , , , , , , , , , , , , , , , , ,	FlowCardia, Inc.						
Labcyte, Inc.	Series C Cvt. Pfd.	8/29/07	1,719,754	1.07	1,708,334		
	Labcyte, Inc.						

Series C Cvt. Pfd.	7/18/05	1,282,337	0.52	1,280,000
Magellan Biosciences, Inc.				
Series A Cvt. Pfd.	11/28/06	2,052,904	1.00	2,050,000
Masimo Corporation				
Restricted Common	8/14/96	910,530	37.48	14,616,225
Masimo Laboratories, Inc.				
Restricted Common	3/31/98	0	0.26	33,696
OmniSonics Medical Technologies, Inc.				
Series A-1 Cvt. Pfd.	10/1/03	1,200,343	0.76	781,218
Series B-1 Cvt. Pfd.	6/4/2007, 11/15/07	667,477	0.76	664,454
Restricted Common	5/24/01	1,606,320	0.01	620
PHT Corporation				
Series D Cvt. Pfd.	7/23/01	2,803,841	0.78	2,800,000
Series E Cvt. Pfd.	9/12/03-12/17/03	627,472	0.78	626,337

	Acquisition		Carrying Value			
Security (g)	Date	Cost		per Unit		Value
Raven biotechnologies, Inc.						
Series B Cvt. Pfd.	12/12/00	\$ 2,00	1,150 \$	0.21	\$	251,515
Series C Cvt. Pfd.	11/26/02	1,55	4,400	0.21		388,600
Series D Cvt. Pfd.	6/23/05	80	3,792	0.07		200,068
Cvt. Note	11/13/07	3	1,874	100.00		29,767
Songbird Hearing, Inc.						
Restricted Common	12/14/00	2,00	3,239	0.67		93
Syntiro Healthcare Services						
Restricted Common	2/5/97	80	0,325	0.001		204
TargeGen, Inc.						
Series C Cvt. Pfd.	8/30/05	1,84	2,331	0.87		1,226,672
Series D Cvt. Pfd.	5/8/07	53	1,198	0.87		353,450
TherOx, Inc.						
Series H Cvt. Pfd.	9/11/00	2,00	1,626	3.86		167,869
Series I Cvt. Pfd.	7/8/05	38	5,273	3.86		384,733
Warrants (expiration 1/26/10)	1/26/05		0	0.00		0
Warrants (expiration 6/09/09)	6/9/04		0	0.00		0
Xanthus Pharmaceuticals, Inc.						
Series B Cvt. Pfd.	12/5/03 - 11/15/06	2,65	2,476	1.00		2,649,902
Cvt. Promissory Note	12/3/07	19	8,971	100.00		198,971
Xoft, Inc.						
Series D Cvt. Pfd.	3/23/07	2,05	5,919	3.20		2,050,000
Zyomyx, Inc.						
Series A New Cvt. Pfd.	2/19/99, 1/12/04	19	9,800	0.10		20,000
Series B New Cvt. Pfd.	3/31/04		112	0.10		20
New Restricted Common	2/19/99 - 7/22/02	2,40	1,101	0.01		2,000
		\$ 52,83	5,206		\$	58,035,295

<sup>(</sup>g) See Schedule of Investments and corresponding footnotes for more information on each issuer.

Federal Income Tax Cost - At December 31, 2007, the total cost of securities for Federal income tax purposes was \$271,225,503. The net unrealized gain on securities held by the Fund was \$38,431,163, including gross unrealized gain of \$71,529,501 and gross unrealized loss of \$33,098,338.

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, 2007 were as follows:

#### HQL

Insert for Affiliate Transactions

Issuer	Va	alue on September 30, 2007	Purchases	Sales	Incom	value on December 31, 2007
Agilix Corporation	\$	94,540	\$	\$	\$	94,540

Concentric Medical, Inc.	6,794,782			6,794,782
CytoLogix Corporation	351,488	352,908	1,948	831,589
MZT Holdings, Inc.	2,816,072		99,027	153,059
PHT Corporation	3,426,337			3,426,337
\$	13,483,219 \$	352,908 \$	\$ 100,975	\$ 11,300,307

#### 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 Life Sciences Investors

By (Signature and Title) /s/ Daniel Omstead

Daniel Omstead, President

Date 2/29/08

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/ Carolyn Haley

Carolyn Haley, Treasurer

Date 2/29/08