

H&Q LIFE SCIENCES INVESTORS
Form N-CSRS
May 27, 2010

OMB APPROVAL
OMB Number: 3235-0570
Expires: August 31, 2011
Estimated average burden hours per
response.....18.9

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

FORM N-CSR

**CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES**

Investment Company Act file number 811-06565

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

2 Liberty Square, 9th Floor, Boston, MA
(Address of principal executive offices)

02109
(Zip code)

2 Liberty Square, 9th Floor, Boston, MA 02109
(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: October 1, 2009 to March 31, 2010

ITEM 1. REPORTS TO STOCKHOLDERS.

See Semiannual Report 3/31/10.

H&Q LIFE SCIENCES INVESTORS

Semiannual Report

March 31, 2010

(Unaudited)

To our Shareholders:

On March 31, 2010, the net asset value (NAV) per share of the Fund was \$12.44. During the six month period ended March 31, 2010, total return at NAV of your Fund was 9.89%, with distributions reinvested. During the most recent quarter ended March 31, 2010, total return at NAV of your Fund was 8.08%, with distributions reinvested. The total investment return at market with distributions reinvested was 11.38% during the six month period ended March 31, 2010 and was 8.90% during the quarter ended March 31, 2010. Comparisons to relevant indices are listed below:

Investment Returns	Quarter Ended 3/31/10	Six-Months Ended 3/31/10
Investment Return at Market	8.90%	11.38%
Net Asset Value	8.08%	9.89%
NASDAQ Biotech Index (NBI)	11.31%	11.84%
S&P 500 Index	5.39%	11.75%

The six month period ended March 31, 2010, representing the first six months of the Fund's 2010 fiscal year, continued a very active period for the markets dating back to at least October 2007. During September 2007, the broad based S&P 500 index reached a high of approximately 1500 and then began a precipitous drop, but by March 2010, the S&P 500 returned to a level that was about 25% below the September 2007 high. The healthcare sector, as represented by the NBI, also reached a high in late 2007, though it did not drop as precipitously thereafter. In fact, as of March 2010, the NBI had recovered all of its losses since the 2007 high, while the S&P 500 remains approximately 25% below its September 2007 high. The graph below illustrates these trends.

Portfolio Highlights

We continue to feel that healthcare performance in the last year or so, including the last six months, is tied to the protracted and complex discussions in Washington D.C. related to healthcare reform. We expected that once there was clarity regarding healthcare reform that the healthcare sector would begin to demonstrate improved performance. As you undoubtedly know, healthcare reform legislation was signed into law in late March 2010. Unfortunately, while the legislation has passed, there remains considerable uncertainty about many of the details. As such there is not as much clarity as we had hoped there would be. We are thus not surprised that in the three month period ended March 31, 2010, as it became clearer that legislation would pass, the healthcare sector (as represented by the NBI) did outperform the broad market. On the other hand, we have also not been surprised that in the six weeks or so since the end of March, as it has become clear that much uncertainty remains, that the NBI has underperformed. We feel this is partly related to the complicated macroeconomic factors, such as sovereign debt issues, financial reform debate, etc., that have been in play. We also think it will take time for generalist investors to analyze and act on the consequences of healthcare reform. Having said all this, we do believe that healthcare will perform well in the coming quarters.

Our assessment of the healthcare legislation that passed is that it is less healthcare reform than health insurance reform. The specifics of the complex legislation have been reported in great detail and will accomplish several things including: 1) an increase in coverage for many Americans who are not now covered by health insurance, 2) the planned establishment of

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

health exchanges which will allow individuals and ultimately small businesses to obtain insurance, 3) modifications to allowed underwriting standards, 4) various changes to Medicare and Medicaid, 5) planned subsidies for low income individuals and families and 6) a mandate that will ultimately require most individuals to obtain coverage or be subject to a moderate penalty. These and other changes will be paid for by a variety of taxes and fees to individuals and various healthcare subsector company groups. Overall the changes will cost approximately \$1 trillion according to the Congressional Budget Office (CBO). The CBO scores the legislation as roughly revenue neutral though this is accomplished by initiating many of the taxes quickly while slowly phasing in many of the benefits.

We have many thoughts about the impact of this bill, but overall it looks to us like the effect on the healthcare industry will be to significantly and beneficially increase the volume of products and services needed by virtue of increasing the number of covered individuals. On the other hand, the costs involved will put undesired, from an industry point of view, pressure on pricing of such products and services.

There will be specific impacts on healthcare subsectors. As a group we don't see a tremendous negative impact on the pharmaceutical, biotechnology and medical technology subsectors. These groups may benefit from volume increases but will be challenged by significant fees and pricing pressure. Most biotechnology companies may be largely unaffected except as the specific approvability and pricing of their particular products are impacted. At this point, there is no way to predict the severity of these issues. Some biotechnology companies will benefit from a provision that extends the commercial exclusivity of certain biological products by twelve years. We don't think this legislation provides a reason to increase or decrease weighting in the medical technology, pharmaceutical and biotechnology sectors. We do think that we should continue to buy and own the stocks of companies developing and commercializing differentiated products serving unmet medical needs.

We think that the generic pharmaceuticals subsector will likely benefit from this legislation due to product volume increases resulting from more individuals with health insurance. We continue to own a significant weighting in this sector through our positions in Teva, Mylan, Akorn, Perrigo and Impax.

The payor (i.e., HMO/Insurance) subsector is a more difficult challenge to analyze for investment. Over the long term, we feel there is little question that this group will struggle to thrive in the face of this legislation. We expect serious pressure from regulators to both maximize the portion of revenue used to pay for patient benefits and limit premium increases. This would ultimately limit the ability of this group to demonstrate sustained earnings growth. Over the next five years, we expect to see significant consolidation among the payor group to maximize synergies, market share

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

and geographic spread. However, we also note that the marketplace seems to have assumed the worst case for the payor group and as a result has driven down valuations in this group to very low levels. It seems to us that in the next year or so, due to potential decreases in unemployment (which would increase the number of individuals covered) and increases in interest rates (which would improve investment returns of payors), that this payor group may exhibit price appreciation. We don't see this group returning to price/earnings multiples of five to ten years ago, but we do feel that this group is oversold at the moment.

In addition we would like to make a few comments about our venture/restricted securities portfolio. As you know, this part of our portfolio, which can account for up to 40% (but which typically accounts for 10-25%) of the Fund's assets, is a differentiating characteristic of the Fund. It allows our investors to participate in the potential of startup healthcare investments in a way which we think is unique and advantaged in the public market. Since the inception of the Fund, it has invested in more than one hundred companies in its venture/restricted securities portfolio including a number that have gone public or have been acquired. As a recent example, one medtech company owned by the Fund was acquired. To our knowledge there are few if any other public funds through which the typical investor could have access to such investments. Though there is never any certainty, we expect there will be opportunities for profitable exits from the Fund's venture/restricted securities portfolio in the future.

While we have not routinely calculated segregated returns for the Fund's venture/restricted securities portfolio, our calculations do indicate that the returns on that portfolio since 2001, during my tenure as portfolio manager, are at or above the venture/restricted securities industry average for that period. Having said this, we note that venture investing is a highly cyclical business and requires a relatively long term investment horizon as such investments are typically slow to mature and are often quite illiquid. We note that the holding period for our average venture/restricted investments have often lasted upwards of three or more years. Moreover, the value of even ultimately successful investments can exhibit a so-called "J Curve," where investments can decline in value before ultimately succeeding.

With all this in mind, I note that the overall portfolio, considering the venture/restricted, public and cash holdings, has underperformed the NBI benchmark somewhat over the six and twelve months ended March 31, 2010. We believe our segregated public company investment results have approached those of the NBI. By our calculation, the majority of Fund underperformance has about equally been the result of i) owning significant cash in a period when market prices were advancing rapidly and ii) our significant ownership of venture/restricted securities which did not participate in the market rally. It is our understanding that most venture investments in other traditional venture capital portfolios also underperformed the NBI, which contains only public companies, during

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

this period. We believe that the underperformance of the restricted portfolio in the last year may have been related to the recent economic slump and hope and expect that it will reverse in the coming quarters. We are firmly committed to the value of our venture/restricted portfolio, but in the recent period, the restricted portfolio has had a negative effect on overall performance.

Please be aware that we continue to feel strongly that the NBI is the most appropriate benchmark for our Fund. This index does contain many companies that are relevant to the Fund's investment objective. However, the NBI does not contain any venture/restricted securities components. To our knowledge there are no other widely acknowledged indices that contain significant pre-public venture or PIPE (i.e. Private Investment in Public Equity) investments typical of the Fund's venture/restricted securities portfolio.

Investment Changes

During the six month period ended March 31, 2010, within the public portfolio, the Fund established positions in several companies including Adolor Corporation, Addus HomeCare Corp., DepoMed Inc., Eurand N.V. and Human Genome Sciences, Inc. During the same six month period the Fund exited its positions in several companies including Amylin Pharmaceuticals, Inc., Becton, Dickinson and Company, Biogen Idec Inc., Sequenom, Inc. and Zix Corporation.

During the six month period ended March 31, 2010, within the venture portfolio, the Fund made follow-on investments in CardioKinetix, Inc., Elemé Medical, Inc. and TargeGen, Inc.

As always, if you have questions, please feel free to call us at 617-772-8500.

Daniel R. Omstead
President

H&Q LIFE SCIENCES INVESTORS

LARGEST HOLDINGS BY ISSUER (Excludes Short-Term Investments)

As of March 31, 2010
(Unaudited)

Issuer - Sector	% of Net Assets
Celgene Corporation	
<i>Biotechnologies/Biopharmaceuticals</i>	5.1%
Teva Pharmaceutical Industries, Ltd.	
<i>Generic Pharmaceuticals</i>	3.8%
Amgen Inc.	
<i>Biotechnologies/Biopharmaceuticals</i>	3.8%
Gilead Sciences, Inc.	
<i>Biotechnologies/Biopharmaceuticals</i>	3.7%
United Therapeutics Corporation	
<i>Biotechnologies/Biopharmaceuticals</i>	2.8%
Cephalon, Inc.	
<i>Biotechnologies/Biopharmaceuticals</i>	2.5%
Illumina, Inc.	
<i>Medical Devices and Diagnostics</i>	2.5%
AMAG Pharmaceuticals, Inc.	
<i>Biotechnologies/Biopharmaceuticals</i>	2.1%
Vertex Pharmaceuticals Inc.	
<i>Biotechnologies/Biopharmaceuticals</i>	2.1%
Align Technology, Inc.	
<i>Medical Devices and Diagnostics</i>	2.0%

PORTFOLIO

As of March 31, 2010
(Unaudited)

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

CONVERTIBLE SECURITIES AND WARRANTS - 10.1% of Net Assets		
SHARES	Convertible Preferred (Restricted) ^{(a) (b)} - 9.7%	VALUE
	<i>Biotechnologies/Biopharmaceuticals - 1.0%</i>	
204,275	MacroGenics, Inc. Series D	\$ 133,208
50,145	MacroGenics, Inc. Series D 18 Month Lock-up	0
1,415,385	TargeGen, Inc. Series C	1,840,000
407,825	TargeGen, Inc. Series D	530,173
		2,503,381
	<i>Drug Discovery Technologies - 1.2%</i>	
1,587,302	Agilix Corporation Series B ^(c)	94,540
250,000	Ceres, Inc. Series C	1,625,000
21,462	Ceres, Inc. Series C-1	139,503
175,540	Ceres, Inc. Series D	1,141,010
28,385	Ceres, Inc. Series F	184,502
5,677	Ceres, Inc. warrants (expiration 9/05/15)	0
		3,184,555
	<i>Healthcare Services - 1.3%</i>	
3,589,744	PHT Corporation Series D ^(c)	2,800,000
802,996	PHT Corporation Series E ^(c)	626,337
99,455	PHT Corporation Series F ^(c)	77,575
		3,503,912
	<i>Medical Devices and Diagnostics - 6.2%</i>	
2,379,916	CardioKinetix, Inc. Series C	1,640,000
N/A	CardioKinetix, Inc. warrants (expiration 12/11/19) ^(d)	0
3,235,293	Concentric Medical, Inc. Series B ^(c)	1,682,352
1,162,790	Concentric Medical, Inc. Series C ^(c)	604,651
455,333	Concentric Medical, Inc. Series D ^(c)	236,773
453,094	Concentric Medical, Inc. Series E ^(c)	235,609
1,198,193	Elemé Medical, Inc. Series C	644,628
1,592,852	FlowCardia, Inc. Series C	2,596,349
1,304,545	Interlace Medical, Inc. Series C	1,435,000
2,446,016	Labcyte Inc. Series C	1,280,000
2,161,090	Magellan Biosciences, Inc. Series A	2,161,090
98,824	Magellan Biosciences, Inc. warrants (expiration 4/01/19)	0
7,877	Magellan Biosciences, Inc. warrants (expiration 5/06/19)	0
1,031,992	OmniSonic Medical Technologies, Inc. Series A-1	1,031

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

877,747

OmniSonics Medical Technologies, Inc.
Series B-1

877

The accompanying notes are an integral part of the financial statements.

7

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

(continued)

SHARES	Convertible Preferred (Restricted) ^{(a) (b)} - continued	VALUE
9,606,373	Palyon Medical Corporation Series A ^(c)	\$ 2,050,000
43,478	TherOx, Inc. Series H	72,122
99,646	TherOx, Inc. Series I	165,293
2,813	TherOx, Inc. warrants (expiration 1/26/11)	0
5,427	TherOx, Inc. warrants (expiration 6/09/10)	0
640,625	Xoft, Inc. Series D	1,601,562
122,754	Xoft, Inc. Series E	306,885
N/A	Xoft, Inc. warrants (expiration 6/12/14) ^(d)	0
		16,714,222
		25,906,070
PRINCIPAL AMOUNT	Convertible Notes - 0.4%	
	<i>Biotechnologies/Biopharmaceuticals - 0.1%</i>	
\$ 152,404	TargeGen, Inc., Cvt Promissory Notes, 8.00% due 2010 (Restricted) ^(a)	152,404
	<i>Drug Discovery Technologies 0.0%</i>	
700,000	deCODE Genetics, Inc., 3.50% due 2011	38,500
	<i>Medical Devices and Diagnostics 0.3%</i>	
246,083	CardioKinetix, Inc., Cvt. Promissory Notes, 4.25% due 2010 (Restricted) ^(a)	246,083
	Elemé Medical, Inc., Subordinated Cvt. Promissory Notes,	
202,272	10.50% due 2012 (Restricted) ^(a)	202,272
	Xoft, Inc., Cvt. Promissory Note,	
410,000	10.00% due 2010 (Restricted) ^(a)	410,000
		858,355
		1,049,259
	TOTAL CONVERTIBLE SECURITIES AND WARRANTS (Cost \$35,893,582)	26,955,329
SHARES	COMMON STOCKS AND WARRANTS - 81.2%	
	<i>Biotechnologies/Biopharmaceuticals - 40.6%</i>	
135,564	Acorda Therapeutics Inc. ^(b)	4,636,289
419,744	Adolor Corporation ^(b)	755,539
228,283	Affymax, Inc. ^(b)	5,348,671
32,700	Alexion Pharmaceuticals, Inc. ^(b)	1,777,899
191,758	Alnylam Pharmaceuticals, Inc. ^(b)	3,263,721
164,764	AMAG Pharmaceuticals, Inc. ^(b)	5,751,911
169,027	Amgen Inc. ^(b)	10,101,054
3,939,544	Antisoma plc ^{(b) (e)}	448,192

The accompanying notes are an integral part of the financial statements.

8

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

(continued)

SHARES	<i>Biotechnologies/ Biopharmaceuticals - continued</i>	VALUE
198,750	ARIAD Pharmaceuticals, Inc. ^(b)	\$ 675,750
	Athersys, Inc. warrants	
82,000	(Restricted, expiration 6/08/12) ^{(a) (b)}	0
131,000	BioMarin Pharmaceutical Inc. ^(b)	3,061,470
218,696	Celgene Corporation ^(b)	13,550,404
100,153	Cephalon, Inc. ^(b)	6,788,370
174,224	Cornerstone Therapeutics Inc. ^(b)	1,106,323
	Cornerstone Therapeutics Inc. warrants	
15,967	(Restricted, expiration 6/06/10) ^{(a) (b)}	0
238,322	Cubist Pharmaceuticals, Inc. ^(b)	5,371,778
214,521	Eurand N.V. ^(b)	2,419,797
94,698	Genzyme Corporation ^(b)	4,908,197
220,686	Gilead Sciences, Inc. ^{(b) (i)}	10,036,799
43,000	Human Genome Sciences, Inc. ^(b)	1,298,600
360,400	Isis Pharmaceuticals, Inc. ^(b)	3,935,568
218,935	Martek Biosciences Corporation ^(b)	4,928,227
	MiddleBrook Pharmaceuticals, Inc. warrants	
175,880	(Restricted, expiration 4/29/10) ^{(a) (b)}	0
113,086	Regeneron Pharmaceuticals, Inc. ^(b)	2,995,648
535,098	Telik, Inc. ^(b)	444,024
137,531	United Therapeutics Corporation ^(b)	7,609,590
140,088	Vertex Pharmaceuticals Inc. ^(b)	5,725,397
209,947	XenoPort, Inc. ^(b)	1,944,109
		108,883,327
	<i>Drug Delivery - 3.2%</i>	
264,752	Alkermes, Inc. ^(b)	3,433,833
260,000	DepoMed Inc. ^(b)	923,000
997,671	DURECT Corporation ^(b)	3,002,990
268,101	Penwest Pharmaceuticals Co. ^(b)	924,948
	Penwest Pharmaceuticals Co. warrants	
199,514	(Restricted, expiration 3/11/13) ^{(a) (b)}	223,456
		8,508,227
	<i>Drug Discovery Technologies - 0.1%</i>	
7,627	Clinical Data, Inc. ^(b)	147,964
162,288	Clinical Data, Inc. CVR (Restricted) ^{(a) (b) (f)}	29,595
1,601,039	MZT Holdings, Inc. ^{(b) (c)}	53,315
	MZT Holdings, Inc. warrants	
1,846,154	(Restricted, expiration 1/17/11) ^{(a) (b) (c)}	0
	MZT Holdings, Inc. warrants	
952,381	(Restricted, expiration 1/22/12) ^{(a) (b) (c)}	0

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

46

Zyomyx, Inc. (Restricted) ^(a) ^(b)

12

230,886

The accompanying notes are an integral part of the financial statements.

9

H&Q LIFE SCIENCES INVESTORS**SCHEDULE OF INVESTMENTS**

MARCH 31, 2010

(Unaudited)

(continued)

SHARES		Generic Pharmaceuticals - 9.4%	VALUE
1,492,833	Akorn, Inc. ^(b)		\$ 2,284,034
108,889	Akorn, Inc. warrants (Restricted, expiration 3/08/11) ^{(a) (b)}		7,622
266,003	Impax Laboratories, Inc. ^(b)		4,756,134
116,786	Mylan Inc. ^(b)		2,652,210
89,347	Perrigo Company		5,246,456
161,513	Teva Pharmaceutical Industries, Ltd. ^(g)		10,188,240
			25,134,696
		<i>Healthcare Services - 7.2%</i>	
312,500	Addus HomeCare Corp. ^(b)		1,887,500
55,910	Aetna Inc.		1,963,000
148,148	Aveta, Inc. (Restricted) ^{(a) (b) (h)}		1,481,480
208,000	CardioNet, Inc. ^(b)		1,591,200
25,323	Laboratory Corporation of America Holdings ^(b)		1,917,204
175,788	Pharmaceutical Product Development, Inc.		4,174,965
124,217	VCA Antech Inc. ^(b)		3,481,803
44,450	WellPoint, Inc. ^(b)		2,861,691
			19,358,843
		<i>Medical Devices and Diagnostics - 16.4%</i>	
284,302	Align Technology, Inc. ^(b)		5,498,401
85,809	Gen-Probe Inc. ^(b)		4,290,450
237,544	Hologic, Inc. ^(b)		4,404,066
81,790	IDEXX Laboratories, Inc. ^(b)		4,707,014
171,207	Illumina, Inc. ^(b)		6,659,952
8,815	Intuitive Surgical, Inc. ^(b)		3,068,766
139,969	Inverness Medical Innovations, Inc. ^(b)		5,451,793
61,014	Life Technologies Corporation ^(b)		3,189,202
130,000	Masimo Laboratories, Inc. (Restricted) ^{(a) (b)}		66,269
447,080	Medwave, Inc. ^(b)		4,471
111,770	Medwave, Inc. warrants (Restricted, expiration 8/21/11) ^{(a) (b)}		0
151,430	Myriad Genetics, Inc. ^(b)		3,641,891
62,005	OmniSonics Medical Technologies, Inc. (Restricted) ^{(a) (b)}		62
139	Songbird Hearing, Inc. (Restricted) ^{(a) (b)}		93
53,746	Stryker Corporation		3,075,346
			44,057,776

The accompanying notes are an integral part of the financial statements.

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

(continued)

SHARES	<i>Pharmaceuticals - 4.3%</i>	VALUE
88,431	Forest Laboratories, Inc. ^(b)	\$ 2,773,196
55,668	Shire plc ^(g)	3,671,861
75,000	Somaxon Pharmaceuticals, Inc. ^(b)	648,750
175,694	Warner Chilcott plc ^(b)	4,488,982
		11,582,789
	TOTAL COMMON STOCKS AND WARRANTS	
	(Cost \$210,158,200)	217,756,544
	EXCHANGE-TRADED FUNDS - 1.0%	
30,200	iShares Nasdaq Biotechnology Index Fund ^(b)	2,746,388
	TOTAL EXCHANGE-TRADED FUNDS	
	(Cost \$2,584,117)	2,746,388
NUMBER OF CONTRACTS (100 SHARES EACH)	PUT OPTION CONTRACTS PURCHASED - 0.0%	
	Medivation, Inc., strike @ 35, expires Jun 2010 ^{(a)(b)}	
184		184
	TOTAL PUT OPTION CONTRACTS PURCHASED	
	(Cost \$250,792)	184
PRINCIPAL AMOUNT	SHORT-TERM INVESTMENTS - 8.8%	
\$ 13,000,000	General Electric Capital Co. Commercial Paper, 0.13% due 04/05/10	12,999,812
	Repurchase Agreement, State Street Bank and Trust Co., repurchase value \$10,720,000 (collateralized by U.S. Treasury Bill 0.24% discount, 09/16/10, market value \$10,939,050);	
10,720,000	0.01% due 04/01/10	10,720,000
	TOTAL SHORT-TERM INVESTMENTS	
	(Cost \$23,719,812)	23,719,812
	TOTAL INVESTMENTS BEFORE OUTSTANDING OPTIONS WRITTEN - 101.1%	
	(Cost \$272,606,503)	271,178,257

The accompanying notes are an integral part of the financial statements.

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

(continued)

NUMBER OF CONTRACTS (100 SHARES EACH)	CALL OPTION CONTRACTS WRITTEN - 0.0%	VALUE
184	Medivation, Inc., strike @ 55, expires Jun 2010 ^(a)	(\$ 184)
	TOTAL CALL OPTION CONTRACTS WRITTEN	
	(Premiums received \$126,406)	(184)
	TOTAL INVESTMENTS NET OF OUTSTANDING OPTIONS	
	WRITTEN - 101.1%	271,178,073
	OTHER LIABILITIES IN EXCESS OF ASSETS - (1.1)%	(2,880,288)
	NET ASSETS - 100%	\$ 268,297,785

(a) Security fair valued.

(b) Non-income producing security.

(c) Affiliated issuers in which the Fund holds 5% or more of the voting securities (total market value of \$8,461,152).

(d) Number of warrants to be determined at a future date.

(e) Foreign security.

(f) Contingent Value Rights

(g) American Depositary Receipt

(h) Security exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers.

(i) A portion of security is pledged as collateral for call options written.

The accompanying notes are an integral part of the financial statements.

H&Q LIFE SCIENCES INVESTORS

SCHEDULE OF INVESTMENTS

MARCH 31, 2010

(Unaudited)

(continued)

Other Information

The Fund uses a three-tier hierarchy to prioritize the assumptions, referred to as inputs, used in valuation techniques to measure fair value. The three-tier hierarchy of inputs is summarized in the three broad levels listed below:

Level 1 quoted prices in active markets for identical investments

Level 2 prices determined using other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.)

Level 3 prices determined using significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments)

These inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

The following is a summary of the inputs used as of March 31, 2010 to value the Fund's net assets:

Assets at Value	Level 1	Level 2	Level 3	Total
Convertible Securities and Warrants				
Biotechnologies/Biopharmaceuticals			\$ 2,655,785	\$ 2,655,785
Drug Discovery Technologies		\$38,500	3,184,555	3,223,055
Healthcare Services			3,503,912	3,503,912
Medical Devices and Diagnostics			17,572,577	17,572,577
Common Stocks and Warrants				
Biotechnologies/Biopharmaceuticals	\$ 108,883,327			108,883,327
Drug Delivery	8,284,771		223,456	8,508,227
Drug Discovery Technologies	201,279		29,607	230,886
Generic Pharmaceuticals	25,127,074		7,622	25,134,696
Healthcare Services	17,877,363		1,481,480	19,358,843
Medical Devices and Diagnostics	43,991,352		66,424	44,057,776
Pharmaceuticals	11,582,789			11,582,789
Exchange-Traded Funds	2,746,388			2,746,388
Option Contracts Purchased			184	184
Short-Term Investments		23,719,812		23,719,812
Other Assets			135,254	135,254
Total	\$ 218,694,343	\$ 23,758,312	\$ 28,860,856	\$ 271,313,511
Liabilities at Value				
Option Contracts Written	\$	\$	(\$ 184)	(\$ 184)

In January 2010, the Financial Accounting Standards Board issued Accounting Standards Update, *Improving Disclosures about Fair Valuation Measurements*, that requires additional disclosures regarding fair value measurements. Certain required disclosures are effective for interim and annual reporting periods

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

beginning after December 15, 2009, and other required disclosures are effective for fiscal years beginning after December 15, 2010, and for interim periods within those fiscal years. Management is currently evaluating the impact it will have on its financial statement disclosures.

The accompanying notes are an integral part of the financial statements.

13

H&Q LIFE SCIENCES INVESTORS**SCHEDULE OF INVESTMENTS**

MARCH 31, 2010

(Unaudited)

(continued)

Other Information, continued

The following is a reconciliation of level 3 assets for which significant unobservable inputs were used to determine fair value:

Level 3 Assets	Balance as of September 30, 2009	Accrued discounts/premiums	Realized gain (loss) and change in unrealized appreciation (depreciation)	Net purchases/sales	Net transfers in (out of) Level 3	Balance as of March 31, 2010
Convertible Securities and Warrants						
Biotechnologies/ Biopharmaceuticals	\$1,811,330		\$ 763,345	\$ 81,110		\$ 2,655,785
Drug Discovery						
Technologies	3,184,555					3,184,555
Healthcare Services	3,503,912					3,503,912
Medical Devices and Diagnostics	18,766,961		(1,660,346)	465,962		17,572,577
Common Stocks and Warrants						
Biotechnologies/ Biopharmaceuticals	187,738		1,410		(\$189,148)	
Drug Delivery	185,548		37,908			223,456
Drug Discovery						
Technologies	25,442		4,165			29,607
Generic Pharmaceuticals	16,333		(8,711)			7,622
Healthcare Services	1,481,480					1,481,480
Medical Devices and Diagnostics	56,419		10,005			66,424
Option Contracts Purchased			(736)		920	184
Other Assets	618,509		429,443	(912,698)		135,254
Total	\$ 29,838,227		(\$ 423,517)	(\$ 365,626)	(\$188,228)	\$28,860,856
Level 3 Liabilities						
Option Contracts Written	\$	\$	\$736	0	(\$ 920)	(\$ 184)
						(\$ 860,961)

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

Net change in unrealized appreciation (depreciation) from
investments still held as of March 31, 2010

The accompanying notes are an integral part of the financial statements.

14

H&Q LIFE SCIENCES INVESTORS**STATEMENT OF ASSETS AND LIABILITIES**

MARCH 31, 2010

(Unaudited)

ASSETS:	
Investments in unaffiliated issuers, at value (cost \$260,481,316)	\$ 262,717,105
Investments in affiliated issuers, at value (cost \$12,125,187)	8,461,152
Cash	7,098
Dividends and interest receivable	85,440
Prepaid expenses	49,087
Other assets (see Note 4)	135,254
Total assets	271,455,136
LIABILITIES:	
Payable for investments purchased	2,691,012
Accrued advisory fee	248,180
Accrued trustee fees	42,205
Accrued shareholder reporting fees	38,300
Options written, at value (premium received \$126,406)	184
Accrued other	137,470
Total liabilities	3,157,351
NET ASSETS	\$ 268,297,785
SOURCES OF NET ASSETS:	
Shares of beneficial interest, par value \$.01 per share, unlimited number of shares authorized, amount paid in on 21,559,721 shares issued and outstanding	\$ 269,848,668
Accumulated net investment loss	(1,691,626)
Accumulated net realized gain on investments and options	1,442,767
Net unrealized loss on investments and options	(1,302,024)
Total net assets (equivalent to \$12.44 per share based on 21,559,721 shares outstanding)	\$ 268,297,785

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

H&Q LIFE SCIENCES INVESTORS**STATEMENT OF OPERATIONS**

SIX MONTHS ENDED MARCH 31, 2010

(Unaudited)

INVESTMENT INCOME:	
Dividend income (net of foreign tax of \$8,707)	\$ 137,502
Interest income	48,996
Total investment income	186,498
EXPENSES:	
Advisory fees	1,431,171
Trustees' fees and expenses	93,486
Legal fees	88,068
Administration and auditing fees	75,958
Shareholder reporting	48,776
Custodian fees	48,594
Transfer agent fees	11,648
Other (see Note 2)	80,423
Total expenses	1,878,124
Net investment loss	(1,691,626)
REALIZED AND UNREALIZED GAIN (LOSS):	
Net realized gain on:	
Investments in unaffiliated issuers	4,569,025
Closed or expired options contracts written	179,077
Net realized gain	4,748,102
Change in unrealized appreciation (depreciation) on:	
Investments in unaffiliated issuers	22,868,794
Investments in affiliated issuers	(2,541,841)
Options contracts written	126,222
Change in unrealized appreciation (depreciation)	20,453,175
Net realized and unrealized gain (loss)	25,201,277
Net increase in net assets resulting from operations	\$ 23,509,651

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

H&Q LIFE SCIENCES INVESTORS**STATEMENTS OF CHANGES IN NET ASSETS**

	Six months ended March 31, 2010 (Unaudited)	Year ended September 30, 2009
NET INCREASE (DECREASE) IN NET ASSETS RESULTING FROM OPERATIONS:		
Net investment loss	(\$ 1,691,626)	(\$ 3,152,783)
Net realized gain	4,748,102	285,197
Change in net unrealized appreciation (depreciation)	20,453,175	(18,806,457)
Net increase (decrease) in net assets resulting from operations	23,509,651	(21,674,043)
DISTRIBUTIONS TO SHAREHOLDERS FROM:		
Net realized capital gains		(2,046,323)
Return of capital (tax basis)		(12,491,241)
Total distributions		(14,537,564)
CAPITAL SHARE TRANSACTIONS:		
Fund shares repurchased (390,499 and 0 shares, respectively)	(3,795,325)	
Reinvestment of distributions (0 and 865,405 shares, respectively)		6,974,830
Total capital share transactions	(3,795,325)	6,974,830
Net increase (decrease) in net assets	19,714,326	(29,236,777)
NET ASSETS:		
Beginning of period	248,583,459	277,820,236
End of period*	\$ 268,297,785	\$ 248,583,459
*Includes accumulated net investment loss of:	(\$ 1,691,626)	\$ 0

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

H&Q LIFE SCIENCES INVESTORS**STATEMENT OF CASH FLOWS***PERIOD ENDED MARCH 31, 2010**(Unaudited)*

CASH FLOWS FROM OPERATING ACTIVITIES:	
Purchases of portfolio securities	(\$ 77,469,452)
Purchases to close option contracts written	(48,186)
Net purchases of short-term investments	(4,716,254)
Sales of portfolio securities	81,265,133
Proceeds from option contracts written	558,333
Interest income received	4,776
Dividend income received	122,561
Other operating receipts (expenses paid)	(1,390,268)
Net cash used for operating activities	(1,673,357)
CASH FLOWS FROM FINANCING ACTIVITIES:	
Fund shares repurchased	(3,795,325)
Net cash used for financing activities	(3,795,325)
NET DECREASE IN CASH	(5,468,682)
CASH AT BEGINNING OF PERIOD	5,475,780
CASH AT END OF PERIOD	\$ 7,098
RECONCILIATION OF NET INCREASE IN NET ASSETS RESULTING FROM OPERATIONS TO NET CASH USED FOR OPERATING ACTIVITIES:	
Net increase in net assets resulting from operations	\$ 23,509,651
Purchases of portfolio securities	(77,469,452)
Purchases to close option contracts written	(48,186)
Net purchases of short-term investments	(4,716,254)
Sales of portfolio securities	81,265,133
Proceeds from option contracts written	558,333
Accretion of discount	(3,559)
Net realized gain on investments and options	(4,748,102)
Increase in net unrealized appreciation (depreciation) on investments and options	(20,453,175)
Increase in dividends and interest receivable	(55,602)
Decrease in accrued expenses	(1,241)
Decrease in prepaid expenses and other assets	489,097
Net cash used for operating activities	(\$ 1,673,357)

Noncash operating activity not included herein consists of corporate actions of \$108,551.

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

H&Q LIFE SCIENCES INVESTORS

FINANCIAL HIGHLIGHTS

(Selected data for each share of beneficial interest outstanding throughout the period indicated)

	Six months ended March 31, 2010	2009	2008	Years ended September 30,		
	Unaudited			2007	2006	2005
PER SHARE OPERATING PERFORMANCE						
Net asset value per share, beginning of period	\$ 11.32	\$ 13.18	\$ 15.34	\$ 13.94	\$ 18.19	\$ 15.90
Net investment loss (1)	(0.08)	(0.15)	(0.14)	(0.09)	(0.10)(2)	(0.21)
Net realized and unrealized gain (loss)	1.16	(1.03)	(0.87)	2.63	(2.10)	3.79
Total increase (decrease) from investment operations	1.08	(1.18)	(1.01)	2.54	(2.20)	3.58
Distributions to shareholder from:						
Net realized capital gain		(0.10)	(1.15)	(1.14)	(2.05)	(1.29)
Return of capital (tax basis)		(0.58)				
Total distributions		(0.68)	(1.15)	(1.14)	(2.05)	(1.29)
Increase resulting from shares repurchased (1)	0.04					
Net asset value per share, end of period	\$ 12.44	\$ 11.32	\$ 13.18	\$ 15.34	\$ 13.94	\$ 18.19
Per share market value, end of period	\$ 10.28	\$ 9.23	\$ 10.62	\$ 13.53	\$ 13.29	\$ 16.85
Total investment return at market value	11.38%*	(5.56%)	(13.52%)	10.56%	(9.95%)	12.77%
RATIOS AND SUPPLEMENTAL DATA						
Net assets, end of period (in millions)	\$ 268	\$ 249	\$ 278	\$ 308	\$ 268	\$ 229
Ratio of operating expenses to average net assets	1.50%** (1.35%**)	1.58% (1.38%)	1.56% (0.99%)	1.60% (0.60%)	1.74% (0.64%)(2)	1.74% (1.29%)

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

Ratio of net investment loss to average net assets						
Portfolio turnover rate	26.79%*	82.88%	73.89%	112.69%	49.90%	73.79%

* Not Annualized.

** Annualized.

(1) Computed using average shares outstanding.

(2) Includes a special dividend from an issuer in the amount of \$0.10 per share. Excluding the special dividend, the ratio of net investment loss to average net assets would have been (1.27%).

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

19

H&Q LIFE SCIENCES INVESTORS

NOTES TO FINANCIAL STATEMENTS

MARCH 31, 2010

(Unaudited)

(1) Organization and Significant Accounting Policies

H&Q Life Science Investors (the Fund) is a Massachusetts business trust registered under the Investment Company Act of 1940 as a diversified closed-end management investment company. The Fund's investment objective is long-term capital appreciation through investment in companies in the life science industry (including biotechnology, pharmaceutical, diagnostics, managed healthcare and medical equipment, hospitals, healthcare information technology and services, devices and supplies), agriculture and environmental management. The Fund invests primarily in securities of public and private companies that are believed to have significant potential for above-average growth.

The preparation of these financial statements requires the use of certain estimates by management in determining the Fund's assets, liabilities, revenues and expenses. Actual results could differ from these estimates. The following is a summary of significant accounting policies consistently followed by the Fund, which are in conformity with accounting principles generally accepted in the United States of America. Events or transactions occurring after March 31, 2010 through the date that the financial statements were issued have been evaluated in the preparation of the financial statements.

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 and the fair value of venture capital and other restricted securities are valued in good faith by Hambrecht & Quist Capital Management LLC (the Adviser) pursuant to valuation policies and procedures approved by the Trustees. Such values are subject to regular oversight and ratification by the Trustees. 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 Adviser considers 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; (iii) the price of a security negotiated at arm's length in an issuer's completed subsequent round of financing; and (iv) the price and extent of public trading in similar securities of the issuer or of comparable companies. See Note 4 below. Short-term investments with maturity of 60 days or less are valued at amortized cost, which approximates fair value.

Options on Securities

An option contract is a contract in which the writer (seller) of the option grants the buyer of the option, upon payment of a premium, the right to purchase from (call option) or sell to (put option) the writer a designated instrument at a specified price within a specified period of time. Certain options, including options on indices, will require cash settlement by the Fund if the option is exercised. The Fund may enter into option contracts in order to hedge against potential adverse price movements in the value of portfolio assets; as a temporary substitute for selling selected investments; to lock in the purchase price of a security or currency which it

H&Q LIFE SCIENCES INVESTORS

NOTES TO FINANCIAL STATEMENTS

MARCH 31, 2010

(continued)

expects to purchase in the near future; as a temporary substitute for purchasing selected investments; and to enhance potential gain.

The Fund's obligation under an exchange traded written option and investment in an exchange traded purchased option are valued at the last sale price or in the absence of a sale, the mean between the closing bid and asked prices. Gain or loss is recognized when the option contract expires, is exercised or is closed.

If the Fund writes a covered call option, the Fund foregoes, in exchange for the premium, the opportunity to profit during the option period from an increase in the market value of the underlying security above the exercise price. If the Fund writes a put option it accepts the risk of a decline in the market value of the underlying security below the exercise price. Over-the-counter options have the risk of the potential inability of counterparties to meet the terms of their contracts. The Fund's maximum exposure to purchased options is limited to the premium initially paid. In addition, certain risks may arise upon entering into option contracts including the risk that an illiquid secondary market will limit the Fund's ability to close out an option contract prior to the expiration date and that a change in the value of the option contract may not correlate exactly with changes in the value of the securities hedged.

All options on securities and securities indices written by the Fund are required to be covered. When the Fund writes a call option, this means that during the life of the option the Fund may own or have the contractual right to acquire the securities subject to the option or may maintain with the Fund's custodian in a segregated account appropriate liquid securities in an amount at least equal to the market value of the securities underlying the option. When the Fund writes a put option, this means that the Fund will maintain with the Fund's custodian in a segregated account appropriate liquid securities in an amount at least equal to the exercise price of the option. The Fund may use option contracts to gain or hedge exposure to financial market risk.

Transactions in call options written for the six months ended March 31, 2010 were as follows:

	Contracts	Premiums
Options outstanding, September 30, 2009		
Options written	6,708	\$ 558,333
Options terminated in closing purchase transactions	(1,260)	(102,487)
Options exercised	(2,064)	(204,665)
Options expired	(3,200)	(124,775)
Options outstanding, March 31, 2010	184	\$ 126,406

Investment Transactions and Income

Investment transactions are recorded on a trade date basis. Gains and losses from sales of investments are recorded using the "identified cost" method. Interest income is recorded on the accrual basis, adjusted for amortization of premiums and accretion of discounts. Dividend income is recorded on the ex-dividend date.

The aggregate cost of purchases and proceeds from sales of investment securities (other than short-term investments) for the six months ended March 31, 2010 totaled \$63,115,293 and \$77,049,755, respectively.

H&Q LIFE SCIENCES INVESTORS

NOTES TO FINANCIAL STATEMENTS

MARCH 31, 2010

(continued)

Repurchase Agreements

In managing short-term investments the Fund may from time to time enter into transactions in repurchase agreements. In a repurchase agreement, the Fund's custodian takes possession of the underlying collateral securities, the market value of which is at least equal to the principal, including accrued interest, of the repurchase agreement at all times. In the event of default or bankruptcy by the other party to the agreement, realization and/or retention of the collateral by the Fund may be delayed or limited.

Distribution Policy

Pursuant to a Securities and Exchange Commission exemptive order, the Fund has implemented a fixed distribution policy (the Policy) that permits the Fund to make quarterly distributions at a rate set by the Board of Trustees. Under the Policy the Fund intends to make distributions at an annualized rate of 5% of the Fund's net assets to shareholders of record. The Fund intends to use net realized capital gains when making quarterly distributions, if available, but the Policy would result in a return of capital to shareholders if the amount of the distribution exceeds the Fund's net investment income and realized capital gains. Under the Policy realized capital gains in excess of the total distributed would be included in the December distribution. The Board of Trustees suspended the Policy on August 4, 2009 and reinstated the Policy on April 5, 2010. Prior to August 4, 2009, the Fund made distributions at an annualized rate of 8% of the Fund's net assets. The Policy has been established by the Board of Trustees and may be changed by them without shareholder approval. The Board regularly reviews the Policy and the distribution rate considering the purpose and effect of the Policy, the financial market environment, and the Fund's income, capital gains and capital available to pay distributions.

The Policy is to declare distributions in stock. The Policy automatically pays in newly-issued full shares of the Fund plus cash in lieu of any fraction of a share, unless otherwise instructed by the shareholder. The Fund's transfer agent delivers an election card and instructions to each registered shareholder in connection with each distribution. For shareholders other than registered shareholders with book entry accounts at the Fund's transfer agent, fractional shares will generally be settled in cash. The number of shares issued will be determined by dividing the dollar amount of the distribution by the lower of net asset value or market price on the pricing date. If a shareholder elects to receive a distribution in cash, rather than in shares, the shareholder's relative ownership in the Fund will be reduced. The shares reinvested will be valued at the lower of the net asset value or market price on the pricing date. Distributions in stock will not relieve shareholders of any federal, state or local income taxes that may be payable on such distributions.

Share Repurchase Program

In September 2009, the Trustees authorized a share repurchase program to allow the Fund to repurchase up to 10% of its outstanding shares for a one year period beginning October 9, 2009. The share repurchase program was intended to enhance shareholder value and potentially reduce the discount between the market price of the Fund's shares and the Fund's net asset value. On April 5, 2010, the Trustees terminated the share repurchase program.

During the six month period ended March 31, 2010, the Fund repurchased 390,499 shares at a total cost of \$3,795,325. The weighted average discount per share between the cost of repurchase and the net asset value applicable to such shares at the date of repurchase was 18.06%.

H&Q LIFE SCIENCES INVESTORS

NOTES TO FINANCIAL STATEMENTS

MARCH 31, 2010

(continued)

Federal Taxes

It is the Fund's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute to its shareholders substantially all of its taxable income and its net realized capital gains, if any. Therefore, no Federal income or excise tax provision is required.

As of March 31, 2010, the Fund had no uncertain tax positions that would require financial statement recognition or disclosure. The Fund's federal tax returns are subject to examination by the Internal Revenue Service for a period of three years.

Distributions

The Fund records all distributions to shareholders from net investment income and realized gains, if any, on the ex-dividend date. Such distributions are determined in conformity with income tax regulations, which may differ from accounting principles generally accepted in the United States of America. These differences include temporary and permanent differences from losses on wash sale transactions, return of capital distributions and net operating losses. Reclassifications are made to the Fund's capital accounts to reflect income and gains available for distribution under income tax regulations.

Statement of Cash Flows

The cash amount shown in the Statement of Cash Flows is the amount included in the Fund's Statement of Assets and Liabilities and represents cash on hand at its custodian and does not include short-term investments at March 31, 2010.

Indemnifications

Under the Fund's organizational documents, its officers and Trustees may be indemnified against certain liabilities and expenses arising out of the performance of their duties to the Fund. Additionally, in the normal course of business, the Fund enters into agreements with service providers that may contain indemnification clauses. The Fund's maximum exposure under these agreements is unknown as this would involve future claims that may be made against the Fund that have not yet occurred. However, based on experience, the Fund expects the risk of loss to be remote.

(2) Investment Advisory and Other Affiliated Fees

The Fund has entered into an Investment Advisory Agreement (the Advisory Agreement) with the Adviser. Pursuant to the terms of the Advisory Agreement, the Fund pays the Adviser a monthly fee at the rate when annualized of (i) 2.50% of the average net assets for the month of its venture capital and other restricted securities up to 25% of net assets and (ii) for all other assets, 0.98% of the average net assets up to \$250 million, 0.88% of the average net assets for the next \$250 million, 0.80% of the average net assets for the next \$500 million and 0.70% of the average net assets thereafter. The aggregate fee would not exceed a rate when annualized of 1.36% (1.375% prior to July 1, 2009).

The Fund has entered into a Services Agreement (the Agreement) with the Adviser. Pursuant to the terms of the Agreement, the Fund reimburses the Adviser for certain services related to a portion of the payment of salary and provision of benefits to the Fund's Chief Compliance Officer. During the six months ended March 31, 2010 these payments amounted to \$26,711 and are included in the Other category in the Statement of Operations, together with insurance and other expenses incurred to unaffiliated entities. Expenses incurred pursuant to the Agreement

H&Q LIFE SCIENCES INVESTORS

NOTES TO FINANCIAL STATEMENTS

MARCH 31, 2010

(continued)

as well as certain other expenses paid for by the Adviser are allocated in an equitable fashion as approved by the Board of the Fund.

The Fund pays compensation to Independent Trustees in the form of a retainer, attendance fees, and additional compensation to Board and Committee chairpersons. The Fund does not pay compensation directly to Trustees or officers of the Fund who are also officers of the Adviser.

(3) Other Transactions with Affiliates

An affiliate company is a company in which the Fund holds 5% or more of the voting securities. Transactions with such companies during the six months ended March 31, 2010 were as follows:

Issuer	Value on October 1, 2009	Purchases	Sales	Income	Value on March 31, 2010
Agilix Corporation	\$ 94,540	\$	\$	\$	\$ 94,540
Concentric Medical, Inc.	5,306,510				2,759,385
MZT Holdings, Inc.	48,031				53,315
Palyon Medical Corporation	2,050,000				2,050,000
PHT Corporation	3,503,912				3,503,912
	\$ 11,002,993	\$	\$	\$	\$ 8,461,152

(4) Venture Capital and Other Restricted Securities

The Fund may invest in venture capital and other restricted securities if these securities would currently comprise 40% or less of net assets. The value of these securities represents 11% of the Fund's net assets at March 31, 2010.

At March 31, 2010, Other Assets in the Statement of Assets and Liabilities consisted of amounts due in connection with restricted securities from two issuers. Subsequent to March 31, 2010, the Fund made a commitment of approximately \$2,050,000 relating to an investment in a venture security.

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 March 31, 2010. The Fund on its own does not have the right to demand that such securities be registered.

Security ^(a)	Acquisition Date	Cost	Carrying Value per Unit	Value
Agilix Corporation				
Series B Cvt. Pfd.	11/08/01	\$ 1,663,667	\$ 0.06	\$ 94,540
Akorn, Inc.				
Warrants (expiration 3/08/11)	3/07/06	0.00	0.07	7,622
Athersys, Inc.				
Warrants (expiration 6/08/12)	6/07/07	0.00	0.00	0
Aveta, Inc.				
Common	12/21/05	2,003,155	10.00	1,481,480
CardioKinetix, Inc.				
Series C Cvt. Pfd.	5/22/08	1,645,087	0.69	1,640,000
Cvt. Promissory Notes	12/10/09, 2/11/10	250,906	1.00	246,083
Warrants (expiration 12/11/19)	12/10/09, 2/11/10	123	0.00	0

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

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.	9/05/07	186,335	6.50	184,502
Warrants (expiration 9/05/15)	9/05/07	0.00	0.00	0
Clinical Data, Inc.				
Contingent Value Rights	5/28/09	0.00	0.17	29,595

H&Q LIFE SCIENCES INVESTORS**NOTES TO FINANCIAL STATEMENTS**

MARCH 31, 2010

(continued)

Security ^(a)	Acquisition Date	Cost	Carrying Value per Unit	Value
Concentric Medical, Inc.				
Series B Cvt. Pfd.	5/07/02, 1/24/03	\$ 2,220,659	\$ 0.52	\$ 1,682,352
Series C Cvt. Pfd.	12/19/03	1,000,545	0.52	604,651
Series D Cvt. Pfd.	9/30/05	638,671	0.52	236,773
Series E Cvt. Pfd.	12/18/08	455,177	0.52	235,609
Cornerstone Therapeutics Inc.				
Warrants (expiration 6/06/10)	6/20/05	0.00	0.00	0
Elemé Medical, Inc.				
Series C Cvt. Pfd.	7/15/08	2,260,641	0.54	644,628
Subordinated Cvt. Promissory Notes	12/18/09 - 3/15/10	210,233	1.00	202,272
FlowCardia, Inc.				
Series C Cvt. Pfd.	8/29/07	1,720,327	1.63	2,596,349
Interlace Medical, Inc.				
Series C Cvt. Pfd.	6/10/09	1,440,459	1.10	1,435,000
Labcyte Inc.				
Series C Cvt. Pfd.	7/18/05	1,283,262	0.52	1,280,000
MacroGenics, Inc.				
Series D Cvt. Pfd.	9/04/08	668,364	0.65	133,208
Series D Cvt. Pfd. 18 Month Lock-up	9/04/08	210,499	0.00	0
Magellan Biosciences, Inc.				
Series A Cvt. Pfd.	11/28/06 - 5/12/09	2,166,424	1.00	2,161,090
Warrants (expiration 4/01/19)	4/03/09	0.00	0.00	0
Warrants (expiration 5/06/19)	5/12/09	0.00	0.00	0
Masimo Laboratories, Inc.				
Common	3/31/98	0.00	0.51	66,269
Medwave, Inc.				
Warrants (expiration 8/21/11)	8/21/06	0.00	0.00	0
MiddleBrook Pharmaceuticals, Inc.				
Warrants (expiration 4/29/10)	4/29/05	0.00	0.00	0
MZT Holdings, Inc.				
Warrants (expiration 1/17/11)	1/17/06	0.00	0.00	0
Warrants (expiration 1/22/12)	1/21/06	0.00	0.00	0
OmniSonics Medical Technologies, Inc.				
Series A-1 Cvt. Pfd.	10/01/03	1,201,037	0.001	1,031
Series B-1 Cvt. Pfd.	6/04/07, 11/15/07	668,067	0.001	877
Common	5/24/01, 7/02/07	1,606,361	0.001	62
Palyon Medical Corporation				
Series A Cvt. Pfd.	4/28/09	2,062,094	0.21	2,050,000
Penwest Pharmaceuticals Co.				

Edgar Filing: H&Q LIFE SCIENCES INVESTORS - Form N-CSRS

Warrants (expiration 3/11/13)	3/11/08	0.00	1.12	223,456
PHT Corporation				
Series D Cvt. Pfd.	7/23/01	2,803,841	0.78	2,800,000
Series E Cvt. Pfd.	9/12/03-10/14/04	627,472	0.78	626,337
Series F Cvt. Pfd.	7/21/08	81,720	0.78	77,575
Songbird Hearing, Inc.				
Common	12/14/00	2,003,239	0.67	93
TargeGen, Inc.				
Series C Cvt. Pfd.	8/30/05	1,842,330	1.30	1,840,000
Series D Cvt. Pfd.	5/08/07	531,198	1.30	530,173
Cvt. Promissory Notes	9/08/09, 10/09/09	157,312	1.00	152,404
TherOx, Inc.				
Series H Cvt. Pfd.	9/11/00	2,001,787	1.66	72,122
Series I Cvt. Pfd.	7/08/05	386,640	1.66	165,293
Warrants (expiration 1/26/11)	1/26/05	0.00	0.00	0
Warrants (expiration 6/09/10)	6/09/04	0.00	0.00	0

H&Q LIFE SCIENCES INVESTORS**NOTES TO FINANCIAL STATEMENTS***MARCH 31, 2010*

(continued)

Security ^(a)	Acquisition Date	Cost	Carrying Value per Unit	Value
Xoft, Inc.				
Series D Cvt. Pfd.	3/23/07	\$ 2,055,919	\$ 2.50	\$ 1,601,562
Series E Cvt. Pfd.	6/20/08	411,757	2.50	306,885
Cvt. Promissory Note	6/12/09	415,686	1.00	410,000
Warrants (expiration 6/12/14)	6/12/09	41	0.00	0
Zyomyx, Inc.				
Common	2/19/99 - 7/22/04	2,601,013	0.25	12
		\$ 43,604,224		\$ 28,725,418

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

H&Q LIFE SCIENCES INVESTORS

INVESTMENT ADVISORY AGREEMENT APPROVAL

The Investment Advisory Agreement (the Advisory Agreement) between the Fund and the Adviser provides that the Advisory Agreement will continue in effect so long as its continuance is approved at least annually by (i) the Trustees of the Fund or the shareholders by affirmative vote of a majority of the outstanding shares and (ii) a majority of the Trustees of the Fund who are not interested persons (the Independent Trustees), by vote cast in person at a meeting called for the purpose of voting on such approval.

On March 25, 2010, the Board, and the Independent Trustees voting separately, determined that the terms of the Advisory Agreement are fair and reasonable and approved the continuance of the Advisory Agreement as being in the best interests of the Fund and its shareholders. In making its determination, the Board considered materials that were specifically prepared by the Adviser at the request of the Board and Fund counsel for purposes of the contract review process, including comparisons of (i) the Fund's performance to its benchmark, the NASDAQ Biotech Index (NBI), and to other investment companies, (ii) the Fund's expenses and expense ratios to those of a peer group of other investment companies, and (iii) the Adviser's profitability with respect to its services for the Fund to the profitability of other investment advisers, as described below. The Trustees took into account that the Adviser presently provides investment management services only to the Fund and to H&Q Healthcare Investors and does not derive any benefit from its relationship with the Fund other than receipt of advisory fees pursuant to the Advisory Agreement. The Board also received and reviewed information throughout the year about the portfolio performance, the investment strategy, the portfolio management team and the fees and expenses of the Fund.

In approving the Advisory Agreement, the Board considered, among other things, the nature, extent, and quality of the services to be provided by the Adviser, the investment performance of the Fund and the Adviser, the costs of services provided and profits realized by the Adviser and its affiliates, and whether fee levels reflect economies of scale for the benefit of Fund shareholders and the extent to which economies of scale would be realized as the Fund grows. The Board reviewed information about the foregoing factors and considered changes, if any, in such information since its previous approval. The Board also evaluated the financial strength of the Adviser and the capability of the personnel of the Adviser, specifically the strength and background of its investment analysts. Fund counsel provided the Board with the statutory and regulatory requirements for approval and disclosure of investment advisory agreements. The Board, including the Independent Trustees, evaluated all of the foregoing and, considering all factors together, determined in the exercise of its business judgment that the continuance of the Advisory Agreement is in the best interests of the Fund and its shareholders. The following provides more detail on certain factors considered by the Trustees and the Board's conclusions with respect to each such factor.

The nature, extent and quality of the services to be provided by the Adviser. On a regular basis the Board considers the roles and responsibilities of the Adviser as a whole, along with specific portfolio management, support and trading functions the Adviser provides to the Fund. The Trustees considered the nature, extent and quality of the services provided by the Adviser to the Fund. The Trustees continue to be satisfied with the quality and value of the investment advisory services provided to the Fund by the Adviser, and, in particular, the management style and discipline followed by the Adviser and the quality of the Adviser's research, trading, portfolio management, compliance and administrative personnel.

H&Q LIFE SCIENCES INVESTORS

INVESTMENT ADVISORY AGREEMENT APPROVAL

(continued)

The investment performance of the Fund and the Adviser. On a regular basis the Board reviews performance information for the Fund and discusses the Fund's investment strategy with the Adviser. The Trustees reviewed comparisons of the Fund's performance to its benchmark, the NBI, and to other investment companies and reviewed other information relating to the performance of the Fund. The Trustees also considered the Adviser's portfolio management strategy and process for the Fund. Although the NBI's performance exceeded the Fund's returns by net asset value and stock price in recent periods, the Fund's return by net asset value outperformed the NBI over the most recent five-year and ten-year periods and the Fund's return by stock price outperformed the NBI over the most recent ten-year period. The Trustees continue to be satisfied with the investment performance of the Fund and the Adviser.

The costs of services to be provided and profits to be realized by the Adviser from its relationship with the Fund. The Trustees considered the various services provided by the Adviser to the Fund and reviewed comparative information regarding the expenses and expense ratios of the Fund and a peer group of other investment companies. The Trustees noted that the Adviser's fees are within the range of fees presented in the comparative information and noted that a portion of the Fund's investment portfolio is invested in venture and restricted securities, a portfolio management service that can command higher management fees than those charged by the Adviser pursuant to the Advisory Agreement. The Trustees also considered financial information provided by the Adviser, including financial statements of the Adviser and a comparison of the Adviser's profitability with respect to its services for the Fund to the profitability of other privately held investment advisers. Based on the information provided to and evaluated by the Trustees, the Trustees concluded that the fees charged by the Adviser are fair and reasonable in light of the quality and nature of the services provided by the Adviser and that the profitability of the Adviser's relationship with the Fund has not been excessive. The fees charged by the Adviser are within a reasonable range of fees as compared to fees charged by other investment advisers, and the services provided by the Adviser and the amounts paid under the Advisory Agreement are sufficiently favorable in comparison to the services rendered and fees charged by others for similar services to warrant a finding that fees to be paid by the Fund are fair.

Whether fee levels reflect economies of scale and the extent to which economies of scale would be realized as the Fund grows. The Trustees considered that the Advisory Agreement provides for breakpoints in the advisory fees so that the Fund will share the benefits of the economies of scale that would inure to the Adviser as the Fund's assets increase. The Trustees reviewed the net assets of the Fund over the last five years, the recent investment performance of the Fund, and the management fees of other funds with similar investment objectives. Given the asset size of the Fund, and as economies of scale are still modest at current Fund asset levels, the Trustees determined that the Fund's breakpoint schedule is satisfactory and fair.

H&Q LIFE SCIENCES INVESTORS

PRIVACY NOTICE

If you are a registered shareholder of the Fund, the Fund and Hambrecht & Quist Capital Management LLC, the Fund's investment adviser, may receive nonpublic personal information about you from the information collected by the transfer agent from your transactions in Fund shares. Any nonpublic personal information is not disclosed to third parties, except as permitted or required by law. In connection with servicing your account and effecting transactions, the information received may be shared with the investment adviser and non-affiliates, including transfer agents, custodians or other service companies. Access to your nonpublic personal information is restricted to employees who need to know that information to provide products or services to you. To maintain the security of your nonpublic personal information, physical, electronic, and procedural safeguards are in place that comply with federal standards. The policies and practices described above apply to both current and former shareholders.

If your Fund shares are held in "street name" at a bank or brokerage, we do not have access to your personal information and you should refer to your bank's or broker's privacy policies for a statement of the treatment of your personal information.

FOR MORE INFORMATION

A description of the Fund's proxy voting policies and procedures and information on how the Fund voted proxies relating to portfolio securities during the most recent 12-month period ended June 30, is available (i) without charge, upon request by calling 1-800-451-2597; (ii) by writing to Hambrecht & Quist Capital Management LLC at 2 Liberty Square, 9th floor, Boston, MA 02109; (iii) on the Fund's website at www.hqcm.com; and (iv) on the Securities and Exchange Commission's (SEC) website at www.sec.gov.

The Fund's complete Schedule of Investments for the first and third quarters of its fiscal year will be filed quarterly with the SEC on Form N-Q. This Schedule of Investments will also be available on the Fund's website at www.hqcm.com or the SEC's website at www.sec.gov. The Fund's Form N-Q may be reviewed and copied at the SEC's Public Reference Room in Washington, DC or by calling 1-800-SEC-0330.

DISTRIBUTION POLICY

The Fund has a fixed distribution policy as described in the Notes to Financial Statements. For more information contact your financial adviser.

PORTFOLIO MANAGEMENT

Daniel R. Omstead, Ph.D., Christopher Brinzey, M.B.A., Frank Gentile, Ph.D. and Jason C. Akus, M.D./M.B.A. are members of a team that analyzes investments on behalf of the Fund. Dr. Omstead exercises ultimate decision making authority with respect to investments.

HOUSEHOLDING

A number of banks, brokers and financial advisers have instituted "householding". Under this practice, which has been approved by the SEC, only one copy of shareholder documents may be delivered to multiple shareholders who share the same address and satisfy other conditions. Householding is intended to reduce expenses and eliminate duplicate mailings of shareholder documents. If you do not want the mailing of your shareholder documents to be combined with those of other members of your household, please contact your bank, broker or financial adviser.

H&Q LIFE SCIENCES INVESTORS

New York Stock Exchange Symbol: HQL

2 Liberty Square, 9th Floor
Boston, Massachusetts 02109
(617) 772-8500
www.hqcm.com

Officers

Daniel R. Omstead, Ph.D., President
Laura Woodward, CPA, Chief Compliance Officer,
Secretary and Treasurer
Betty Chang, Assistant Treasurer

Trustees

Rakesh K. Jain, Ph.D.
Lawrence S. Lewin
Robert P. Mack, M.D.
Eric Oddleifson
Daniel R. Omstead, Ph.D.
Oleg M. Pohotsky
Uwe E. Reinhardt, Ph.D.
Lucinda H. Stebbins, CPA

Investment Adviser

Hambrecht & Quist Capital Management LLC

Administrator & Custodian

State Street Bank and Trust Company

Transfer Agent

Computershare Shareholder Services, Inc.

Legal Counsel

Dechert LLP

Shareholders with questions regarding share transfers may call

1-800-426-5523

Daily net asset value may be obtained from
our website (www.hqcm.com) or by calling

1-800-451-2597

Item 2. CODE OF ETHICS.

Not applicable to this semi-annual filing.

ITEM 3. AUDIT COMMITTEE FINANCIAL EXPERT.

Not applicable to this semi-annual filing.

ITEM 4. PRINCIPAL ACCOUNTANT FEES AND SERVICES.

Not applicable to this semi-annual filing.

ITEM 5. AUDIT COMMITTEE OF LISTED REGISTRANTS.

Not applicable to this semi-annual filing.

ITEM 6. INVESTMENTS.

The Registrant's Schedule of Investments is included as part of the Report to Shareholders filed under Item 1 of this form.

ITEM 7. DISCLOSURE OF PROXY VOTING POLICIES AND PROCEDURES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

Not applicable to this semi-annual filing.

ITEM 8. PORTFOLIO MANAGERS OF CLOSED-END MANAGEMENT INVESTMENT COMPANIES

Not applicable to this semi-annual filing.

ITEM 9. PURCHASES OF EQUITY SECURITIES BY CLOSED-END MANAGEMENT INVESTMENT COMPANY AND AFFILIATED PURCHASERS.

Period	(a) Total No. of Shares Purchased (1)	(b) Average Price Paid per Share	(c) Total No. of Shares Purchased as Part of Publicly Announced Plans or Programs	(d) Maximum No. of Shares that May Yet Be Purchased Under the Plans or Programs
Month #1 (Oct. 1, 2009-Oct. 31, 2009)				2,195,022
Month #2 (Nov. 1, 2009 Nov. 30, 2009)				2,195,022
Month #3 (Dec. 1, 2009 Dec. 31, 2009)	128,193	9.30	128,193	2,066,829
Month #4 (Jan. 1, 2010 Jan. 31, 2010)	201,060	9.80	201,060	1,865,769
Month #5 (Feb. 1, 2010 Feb. 28, 2010)				1,865,769
Month #6 (Mar. 1, 2010 Mar. 31, 2010)	61,246	10.20	61,246	1,804,523
Total	390,499	9.70	390,499	

(1) The share repurchase program was announced on September 30, 2009, allowing the Registrant to purchase in the open market up to 10% of its outstanding common shares for a one year period beginning October 9, 2009. On April 5, 2010 the Registrant announced the termination of the share repurchase program.

ITEM 10. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS.

There have been no material changes to the procedures by which the shareholders may recommend nominees to the Registrant's Board of Trustees, where those changes were implemented after the Registrant last provided disclosure in response to the requirements of Item 7(d)(2)(ii)(G) of Schedule 14A, or this Item.

ITEM 11. CONTROLS AND PROCEDURES.

(a) In the opinion of the principal executive officer and principal financial officer, based on their evaluation which took place within 90 days of this filing, the Registrant's disclosure controls and procedures are adequately designed and are operating effectively to ensure (i) that material information relating to the Registrant, including its consolidated subsidiaries, is made known to them by others within those entities, particularly during the period in which this report is being prepared; and (ii) that information required to be disclosed by the registrant on Form N-CSR is recorded, processed, summarized and reported within the time period 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 that occurred during the Registrant's most recent second fiscal quarter that have materially affected or that are reasonably likely to materially affect the Registrant's internal control over financial reporting.

ITEM 12. EXHIBITS

(a)(1) Code of Ethics - Not applicable to this semi-annual filing.

(a)(2) Certification of the Principal Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 is attached hereto (Exhibit 1).

(a)(3) Certification of the Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 is attached hereto (Exhibit 2).

(b) Certifications pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 are attached hereto (Exhibit 3).

SIGNATURES

Pursuant to the requirements of the Securities 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 R. Omstead
Daniel R. Omstead, President

Date: 5/27/10

Pursuant to the requirements of the Securities 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/ Laura Woodward
Laura Woodward, Treasurer

Date: 5/27/10

* Print the name and title of each signing officer under his or her signature.
