BlackRock Health Sciences Trust Form N-Q March 26, 2008

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

## FORM N-Q

# QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-21702

Name of Fund: BlackRock Health Sciences Trust (BME)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Donald C. Burke, Chief Executive Officer, BlackRock Health Sciences Trust, 800 Scudders Mill Road, Plainsboro, NJ, 08536. Mailing address: P.O. Box 9011, Princeton, NJ, 08543-9011

Registrant[]s telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 10/31/2008

Date of reporting period: 11/01/2007 [] 01/31/2008

## SCHEDULE OF INVESTMENTS as of January 31, 2008 (unaudited)

BlackRock Health Sciences Trust (BME) (Percentages shown are based on Net Assets)

Shares	Description	Value
	LONG-TERM INVESTMENTS 90.7%	
	Common Stocks 90.7% Biotechnology 12.1%	
56,0001,2	Alexion Pharmaceuticals, Inc.	\$ 3,657,920
101,7002	Applera Corp Celera Group	1,558,044
20,4002	Argule, Inc.	98,940
20,3002	ARYx Therapeutics, Inc.	161,588
20,4002	Celgene Corp.	1,144,644
61,4002	Charles River Laboratories Intl., Inc.	3,812,940
38,5002	Halozyme Therapeutics, Inc.	212,135
92,7002,3	Integra LifeSciences Holdings Corp.	3,856,320
90,1672	InterMune, Inc.	1,512,100
121,3182	Kosan Biosciences, Inc.	327,559
30,1002	Millipore Corp.	2,111,515
150,8002	Myriad Genetics, Inc.	6,485,908
13,2002	Nanosphere, Inc.	158,664
49,6372	NicOx S.A.	695,439
	Total Biotechnology	25,793,716
	Total biolectificiogy	25,795,710
	Distribution/Wholesale 1.4%	
24,5002	MWI Veterinary Supply, Inc.	936,635
50,700	Owen & Minor, Inc.	2,094,924
	Total Distribution/Wholesale	3,031,559
	Electronics 2.0%	
71,700	Applera Corp Applied Biosystems Group	2,260,701
20,0002	Varian, Inc.	1,085,000
15,0662	Waters Corp.	865,542
	Total Electronics	4,211,243
		4,211,243
29,300	Total Electronics  Healthcare Products 33.3% Alcon, Inc.	
·	Healthcare Products 33.3% Alcon, Inc.	4,160,600
70,9002	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc.	4,160,600 362,299
70,900 <sub>2</sub> 122,700	Healthcare Products 33.3% Alcon, Inc.	4,160,600 362,299 7,452,798
70,900 <sub>2</sub> 122,700 147,200 <sub>1</sub>	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co.	4,160,600 362,299 7,452,798 12,737,216
70,900 <sub>2</sub> 122,700 147,200 <sub>1</sub> 17,700	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co. C.R. Bard, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289
70,900 <sub>2</sub> 122,700 147,200 <sub>1</sub> 17,700 64,900 <sub>2</sub>	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co. C.R. Bard, Inc. Cepheid, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046
70,9002 122,700 147,2001 17,700 64,9002 50,300	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co. C.R. Bard, Inc. Cepheid, Inc. China Medical Technologies, Inc. (ADR)	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co. C.R. Bard, Inc. Cepheid, Inc. China Medical Technologies, Inc. (ADR) Cyberonics, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600	Healthcare Products 33.3% Alcon, Inc. Alphatec Holdings, Inc. Baxter Intl., Inc. Becton Dickinson & Co. C.R. Bard, Inc. Cepheid, Inc. China Medical Technologies, Inc. (ADR) Cyberonics, Inc. Dentsply Intl., Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200 105,7001	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson  Medtronic, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012 4,922,448
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200 105,7001 17,8002	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson  Medtronic, Inc.  Power Medical Interventions, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012 4,922,449 231,400
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200 105,7001 17,8002 52,6002	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson  Medtronic, Inc.  Power Medical Interventions, Inc.  SenoRx, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012 4,922,449 231,400 468,140
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200 105,7001 17,8002 52,6002 86,6002	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson  Medtronic, Inc.  Power Medical Interventions, Inc.  SenoRx, Inc.  St. Jude Medical, Inc.	4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012 4,922,449 231,400 468,140 3,508,166
70,9002 122,700 147,2001 17,700 64,9002 50,300 120,4002 113,600 45,9002 86,200 105,7001 17,8002 52,6002	Healthcare Products 33.3%  Alcon, Inc.  Alphatec Holdings, Inc.  Baxter Intl., Inc.  Becton Dickinson & Co.  C.R. Bard, Inc.  Cepheid, Inc.  China Medical Technologies, Inc. (ADR)  Cyberonics, Inc.  Dentsply Intl., Inc.  Edwards Lifesciences Corp.  Johnson & Johnson  Medtronic, Inc.  Power Medical Interventions, Inc.  SenoRx, Inc.	4,211,243  4,160,600 362,299 7,452,798 12,737,216 1,709,289 1,982,046 2,397,801 1,444,800 4,692,816 2,123,793 5,453,012 4,922,449 231,400 468,140 3,508,166 10,715,200 5,006,637

	Total Healthcare Products	71,300,847
	Healthcare Services 5.7%	
78,100	Aetna, Inc.	4,159,606
30,3002	Covance, Inc.	2,519,748
22,900	Fresenius Medical Care AG & Co. KGaA	1,178,208
46,7832	Psychiatric Solutions, Inc.	1,411,443
58,700	UnitedHealth Group, Inc.	2,984,308
,	·	
	Total Healthcare Services	12,253,313
	Pharmaceuticals 34.4%	
110,3001	Abbott Laboratories	6,209,890
67,6002	Auxilium Pharmaceuticals, Inc.	2,311,920
25,9002	BioForm Medical, Inc.	181,300
174,4382,3	BioMarin Pharmaceuticals, Inc.	6,464,672
106,100	Bristol-Myers Squibb Co.	2,460,459
13,3002	Cephalon, Inc.	872,879
46,8002	Dynavax Technologies Corp.	265,356
13,300 <sub>2,3</sub>	EPIX Pharmaceuticals, Inc.	38,038
137,0002	Gilead Sciences, Inc.	6,259,530
270,9001	Merck & Co., Inc.	12,537,252
21,000	Novartis AG (ADR)	1,062,810
130,9002	Onyx Pharmaceuticals, Inc.	6,221,677
141,1001	Pfizer, Inc.	3,300,329
65,7002	Pharmion Corp.	4,530,015
66,5002,3	Poniard Pharmaceuticals, Inc.	347,130
Nh	Paradollar.	Walter
Shares	Description	Value
	Pharmaceuticals (cont d)	
$30,500^2$	Rigel Pharmaceuticals, Inc.	\$ 839,665
66,450	Roche Holding AG	12,065,409
71,100	Teva Pharmaceutical Industries Ltd. (ADR)	3,273,444
30,400 <sup>2</sup>	Tongjitang Chinese Medicines Co. (ADR)	253,536
39,900 <sup>2</sup>	United Therapeutics Corp.	3,350,802
20 U22		/06 9 /6
20,022	Wyeth	796,876
20,022	Total Pharmaceuticals	
20,022	Total Pharmaceuticals	
	Total Pharmaceuticals  Technology 1.6%	73,642,989
90,300	Total Pharmaceuticals	
90,300	Total Pharmaceuticals  Technology 1.6% CVS Caremark Corp.  Software 0.2%	<u> </u>
	Total Pharmaceuticals  Technology 1.6%  CVS Caremark Corp.	73,642,989
90,300	Total Pharmaceuticals  Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks	73,642,989 3,528,021 419,120
90,300	Total Pharmaceuticals  Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.	73,642,989 3,528,021 419,120
90,300	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3%	73,642,989 3,528,021 419,120
90,300 20,800 <sup>2</sup>	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)	73,642,989 3,528,021 419,120
90,300	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3%	73,642,989 3,528,021 419,120
90,300 20,800 <sup>2</sup>	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3% Money Market Funds 7.4%	73,642,989 3,528,021 419,120 194,180,808
90,300 20,800 <sup>2</sup>	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3% Money Market Funds 7.4% Fidelity Institutional Money Market	73,642,989 3,528,021 419,120 194,180,808
90,300 20,800 <sup>2</sup> 10,711,780 <sup>4</sup>	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3% Money Market Funds 7.4% Fidelity Institutional Money Market Prime Portfolio, 3.96%	73,642,989
90,300 20,800 <sup>2</sup> 10,711,780 <sup>4</sup>	Technology 1.6% CVS Caremark Corp.  Software 0.2% MedAssets, Inc.  Total Common Stocks (cost \$171,985,362)  SHORT-TERM INVESTMENTS 12.3% Money Market Funds 7.4% Fidelity Institutional Money Market Prime Portfolio, 3.96%	73,642,989 3,528,021 419,120 194,180,808

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	U.S. Government and Agency Discount Notes 4.9%	
\$ 10,400 <sup>7</sup>	Federal Home Loan Bank Disc. Notes, 2.00% 2/01/08	10,400,000
	Total Short-Term Investments (cost \$26,285,080)	26,285,080

Contracts		
	OUTSTANDING CALL OPTION PURCHASED 0.0%	
300	Merck & Co., Inc., strike price \$55, expires 02/18/08 (cost \$2,115)	2,250
	Total investments before outstanding options written (cost \$198,272,5578)	220,468,138
	OUTSTANDING OPTIONS WRITTEN (0.7)%	
	OUTSTANDING CALL OPTIONS WRITTEN (0.5)%	
(25,000)	Abbott Laboratories, strike price \$60.15, expires 02/22/08	(7,797)
(15,000)	Aetna, Inc., strike price \$58, expires 02/15/08	(1,143)
(50)	Alcon, Inc., strike price \$150, expires 02/18/08	(6,625)
(400)	Alexion Pharmaceuticals, Inc., strike price \$80, expires 02/18/08	(13,000)
(10,000)	Alphatec Holdings, Inc., strike price \$5.02, expires 02/11/08	(1,953)
(200)	Applera Corp Applied Biosystems Group, strike price \$35, expires 02/18/08	(2,500)
(200)	Applera Corp Celera Group, strike price \$17.50, expires 03/24/08	(6,000)
(20)	Auxilium Pharmaceuticals, Inc., strike price \$30, expires 03/24/08	(11,600)
(10,000)	Auxilium Pharmaceuticals, Inc., strike price \$30.66, expires 03/20/08	(48,915)
(100)	Baxter Intl., Inc., strike price \$60, expires 02/18/08	(16,750)
(150)	Baxter Intl., Inc., strike price \$62.50, expires 02/18/08	(6,750)
(100)	Baxter Intl., Inc., strike price \$65, expires 05/19/08	(19,000)
(125)	Becton Dickinson & Co., strike price \$85, expires 02/18/08	(32,188)
(100)	Becton Dickinson & Co., strike price \$85, expires 03/24/08	(41,000)

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## SCHEDULE OF INVESTMENTS as of January 31, 2008 (unaudited)

BlackRock Health Sciences Trust (BME) (continued) (Percentages shown are based on Net Assets)

Contracts	Description	Value
	OUTSTANDING CALL OPTIONS WRITTEN (cont d)	
(100)	Becton Dickinson & Co., strike price \$95, expires 03/24/08	\$ (4,50
(25,000)	BioMarin Pharmaceuticals, Inc., strike price \$35, expires 03/20/08	(100,64
(100)	BioMarin Pharmaceuticals, Inc., strike price \$40, expires 02/18/08	(3,75
(400)	BioMarin Pharmaceuticals, Inc., strike price \$40, expires 03/24/08	(44,00
(250)	BioMarin Pharmaceuticals, Inc., strike price \$40, expires 04/21/08	(45,00
(25)	C.R. Bard, Inc., strike price \$100, expires 03/24/08	(6,87
(204)	Celgene Corp., strike price \$55, expires 02/18/08	(43,86
(20)	Cephalon, Inc., strike price \$75, expires 02/18/08	(20
(100)	Cephid, Inc., strike price \$30, expires 03/24/08	(34,0
(120)	Charles River Laboratories Intl., Inc., strike price \$65, expires 02/18/08	(9,0
(82)	China Medical Technologies, Inc. (ADR), strike price \$50, expires 03/22/08	(27,0
(100)	Covance, Inc., strike price \$90, expires 02/18/08	(2,5)
(10)	Covance, Inc., strike price \$90, expires 05/19/08	(2,5
(100)	CVS Caremark Corp., strike price \$40, expires 02/18/08	(3,5)
(50)	CVS Caremark Corp., strike price \$40, expires 03/24/08	(5,3
(200)	Cyberonics, Inc., strike price \$15, expires 04/21/08	(7,5)
(27,000)	Dentsply Intl., Inc., strike price \$47.50, expires 02/22/08	(2,3
(20)	Edwards Lifesciences Corp., strike price \$55, expires 02/18/08	(2,0
(7,300)	Fresenius Medical Care AG & Co. KGaA, strike price 39.83 EUR, expires 04/01/08	(3,2
(300)	Gilead Sciences, Inc., strike price \$50, expires 02/18/08	(3,0
(150)	Gilead Sciences, Inc., strike price \$50, expires 05/19/08	(25,8
(20)	Integra LifeSciences Holdings Corp., strike price \$45, expires 03/24/08	(1,4
(13,000)	Johnson & Johnson, strike price \$66.50, expires 03/26/08	(6,5
(250)	Medtronic, Inc., strike price \$52.50, expires 02/18/08	(1,8
(100)	Medtronic, Inc., strike price \$52.50, expires 02/10/00  Medtronic, Inc., strike price \$55, expires 05/19/08	(2,5
(30,000)	Merck & Co., Inc., strike price \$61.48, expires 02/22/08	
(300)	Myriad Genetics, Inc., strike price \$50, expires 02/18/08	(8,2
(500)	Myriad Genetics, Inc., strike price \$50, expires 02/10/00  Myriad Genetics, Inc., strike price \$50, expires 03/24/08	(43,7
(113)	Myriad Genetics, Inc., strike price \$50, expires 05/24/06  Myriad Genetics, Inc., strike price \$85, expires 02/16/08	(43,7
		(1,0
(100) (250)	Novartis AG (ADR), strike price \$60, expires 04/21/08 Onyx Pharmaceuticals, Inc., strike price \$55, expires 03/24/08	(58,7
(10,000)		
(200)	Owen & Minor, Inc., strike price \$43.50, expires 02/22/08 Pharmion Corp., strike price \$65, expires 03/24/08	(5,8 (116,0
(10,000) (260)	Psychiatric Solutions, Inc., strike price \$37, expires 02/22/08 Rigel Pharmaceuticals, Inc., strike price \$25, expires 02/18/08	(2 (80,6
ontracts	Description	Value
ontracts	Description	value
(45)	OUTSTANDING CALL OPTIONS WRITTEN (cont d) Rigel Pharmaceuticals, Inc., strike price \$30, expires 02/18/08	\$ (3,3
(250)	Roche Holding AG, strike price 210 CHF, expires 04/18/08	φ (3,3 (93,2
(10,000)	Roche Holding AG, strike price 218.36 CHF, expires 02/20/08	
,		(6,9
(130)	St. Jude Medical, Inc., strike price \$45, expires 04/21/08 Stryker Corp., strike price \$75, expires 03/24/08	(12,6
(200)		(7,0
(100)	Stryker Corp., strike price \$80, expires 03/24/08	(1,0
(100)	Teva Pharmaceutical Industries Ltd. (ADR), strike price \$47.50, expires 03/24/08	(12,2
(45)	United Therapeutics Corp., strike price \$120, expires 02/18/08	(9
(100)	UnitedHealth Group, Inc., strike price \$60, expires 02/18/08	(1,5
(150)	Varian Medical Systems, Inc., strike price \$55, expires 02/18/08	(3,7
(20)	Varian Medical Systems, Inc., strike price \$55, expires 03/24/08	(1,9
(50)	Varian, Inc., strike price \$75, expires 02/18/08	(5
(40) (60)	Waters Corp., strike price \$75, expires 02/18/08 Waters Corp., strike price \$80, expires 02/18/08	(9,0 (4,2
	Total Outstanding Call Options Written	
	(premium received \$1,697,050)	(1,076,9

(250)	Abbott Laboratories, strike price \$55, expires 02/18/08		(20,000)
(420)	Aetna, Inc., strike price \$55, expires 02/18/08		(116,550)
(50)	Charles River Laboratories Intl., Inc., strike price \$60, expires 02/18/08		(4,875)
(38)	China Medical Technologies, Inc. (ADR), strike price \$50, expires 02/18/08		(12,730)
(150)	Dentsply Intl., Inc., strike price \$45, expires 02/18/08		(59,250)
(165)	Genentech, Inc., strike price \$70, expires 02/18/08		(18,562)
(560)	Incyte Corp., strike price \$10, expires 02/16/08		(14,000)
(25)	Millipore Corp., strike price \$65, expires 02/18/08		(2,500)
(100)	United Therapeutics Corp., strike price \$90, expires 02/18/08		(70,000)
	Total Outstanding Put Options Written		
	(premium received \$194,205)		(318,467)
	Total Outstanding Options Written		
	(premium received \$1,891,255)		(1,395,430)
Total investments net of outstandi	ng ontions		
written 102.3%	ng options	\$	219,072,708
Other assets in excess of liabilities	: (2 3\%	Ψ	(5,035,120)
Other assets in excess of hashines	(2.0)		(0,000,120)
Net Assets 100.0%		\$	214,037,588

Security, or a portion thereof, pledged as collateral for outstanding options written.

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Non-income producing security.

<sup>&</sup>lt;sup>3</sup> Security, or a portion of security, is on loan.

<sup>&</sup>lt;sup>4</sup> Represents current yield as of January 31, 2008.

<sup>5</sup> Represents an investment in an affiliate.

<sup>&</sup>lt;sup>6</sup> Security purchased with the cash proceeds from securities loaned.

<sup>&</sup>lt;sup>7</sup> Rate shown is the yield to maturity as of the date of purchase.

#### SCHEDULE OF INVESTMENTS as of January 31, 2008 (unaudited)

BlackRock Health Sciences Trust (BME) (continued) (Percentages shown are based on Net Assets)

Cost for federal income tax purposes is \$198,684,052. The net unrealized appreciation on a tax basis is \$21,784,086, consisting of \$27,889,056 gross unrealized appreciation and \$6,104,970 gross unrealized depreciation.

For Trust compliance purposes, the Trust s sector and industry classifications refer to any one or more of the Standard Industry Codes as defined by the SEC. This definition may not apply for purposes of this report, which may combine sector and industry sub-classifications for reporting ease.

### **KEY TO ABBREVIATIONS**

ADR American Depositary Receipt

CHF Swiss Franc

EUR Euro

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#### Item 2 ☐ Controls and Procedures

2(a) The registrant principal executive and principal financial officers or persons performing similar functions have concluded that the registrant disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.

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

Item 3 ☐ Exhibits

Certifications 

☐ Attached hereto

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.

BlackRock Health Sciences Trust

By: /s/ Donald C. Burke
Donald C. Burke
Chief Executive Officer of
BlackRock Health Sciences Trust

Date: March 24, 2008

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: /s/ Donald C. Burke
Donald C. Burke
Chief Executive Officer (principal executive officer) of
BlackRock Health Sciences Trust

Date: March 24, 2008

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Health Sciences Trust

Date: March 24, 2008