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OMB APPROVAL

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

SCHEDULE 13G

Under	the	Securities	Exchange	Act	of	1934
		(Amendme	ent No.)			

BlackRock Health Sciences Trust

(Name of Issuer)	
Common Shares	
(Title of Class of Securities)	
09250W107	
(CUSIP Number)	
December 31, 2008	
(Date of Event Which Requires Filing of this Statem	nent)
Check the appropriate box to designate the rule pursuant to Schedule is filed:	which this
[X ] Rule 13d-1(b)	
[ ] Rule 13d-1(c)	
[ ] Rule 13d-1(d)	
* The remainder of this cover page shall be filled out for a person's initial filing on this form with respect to the su of securities, and for any subsequent amendment containing which would alter the disclosures provided in a prior cover	ubject class information
The information required in the remainder of this cover page be deemed to be "filed" for the purpose of Section 18 of the Exchange Act of 1934 or otherwise subject to the liabilities section of the Act but shall be subject to all other provise Act (however, see the Notes).	ne Securities es of that
CUSIP No. 09250W107	
1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)	
Merrill Lynch & Co., Inc. 13-2740599	
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) [_]
	(b) [ ]
3. SEC USE ONLY	
4. CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
NUMBER OF 5. SOLE VOTING POWER	
SHARES 0	
BENEFICIALLY 6. SHARED VOTING POWER	
OWNED BY 776,469	

EACH	7. SOLE D	ISPOSITIVE POWER	
REPORTING		0	
PERSON	8. SHARED	DISPOSITIVE POWER	
WITH		776,469	
9. AGGREGATE	AMOUNT BENE	FICIALLY OWNED BY EACH REPORTING PERSON	v
		776,469	
10. CHECK BOX	IF THE AGGRI	EGATE AMOUNT IN ROW (9) EXCLUDES CERTA	
			[_]
11. PERCENT O	F CLASS REPRI	ESENTED BY AMOUNT IN ROW (9)	
		10.3%	
12. TYPE OF R	EPORTING PER	SON	
		HC	
CUSIP No. 0925	OW107		
	EPORTING PERS ENTIFICATION	NO. OF ABOVE PERSONS (ENTITIES ONLY)	
Merri	ll Lynch, Pie	erce, Fenner & Smith, Inc. 13-5674085	
2. CHECK THE	APPROPRIATE	BOX IF A MEMBER OF A GROUP	
			(a) [_] (b) [_]
3. SEC USE O	NLY		
4. CITIZENSH	IP OR PLACE (	DF ORGANIZATION	
		Delaware	
NUMBER OF	5. SOLE V	OTING POWER	
SHARES		0	
BENEFICIALLY		VOTING POWER	
OWNED BY		773,868	
EACH	7. SOLE D	ISPOSITIVE POWER	
REPORTING		0	
PERSON		DISPOSITIVE POWER	
WITH		773,868	
9. AGGREGATE		FICIALLY OWNED BY EACH REPORTING PERSON	
		773,868	
		EGATE AMOUNT IN ROW (9) EXCLUDES CERTA:	
			[_]
		ESENTED BY AMOUNT IN ROW (9)	
		10.2%	
12. TYPE OF R		SON	
		HC	
CUSIP No. 092	OUMIU/		

1. NAME OF REPORTING PERSONS

M	Merrill Lynch	Bank and Trust Co. FSB 22-3513863		
2. CHECK THE	APPROPRIATE	BOX IF A MEMBER OF A GROUP	(a) (b)	
3. SEC USE C	NLY			
4. CITIZENSH	IP OR PLACE (	OF ORGANIZATION		
		Delaware		
NUMBER OF	5. SOLE V	OTING POWER		
SHARES		0		
BENEFICIALLY	6. SHARED	VOTING POWER		
OWNED BY		2,601		
EACH	7. SOLE D	ISPOSITIVE POWER		
REPORTING		0		
PERSON	8. SHARED	DISPOSITIVE POWER		
WITH		2,601		
9. AGGREGATE	AMOUNT BENE	FICIALLY OWNED BY EACH REPORTING PER	SON	
		2,601		
10. CHECK BOX	IF THE AGGRI	EGATE AMOUNT IN ROW (9) EXCLUDES CER	rain sha	ARES
				[_]
11. PERCENT C	F CLASS REPRI	ESENTED BY AMOUNT IN ROW (9)		
		Less than 0.1%		
12. TYPE OF R	EPORTING PER	SON*		
		BK		
CUSIP No. 0925	0W107			
	EPORTING PERSENTIFICATION	SONS NO. OF ABOVE PERSONS (ENTITIES ONLY)	 )	
		c Investment Management, Inc.		353
		BOX IF A MEMBER OF A GROUP		
			(a) (b)	
3. SEC USE C	NLY			
4. CITIZENSH		DF ORGANIZATION		
		Delaware		
NUMBER OF	5. SOLE V	OTING POWER		
SHARES		0		
BENEFICIALLY	6. SHARED	VOTING POWER		
OWNED BY		1500		
EACH	7. SOLE D	ISPOSITIVE POWER		
REPORTING		0		
PERSON	8. SHARED	DISPOSITIVE POWER		
WITH		1500		

9.	AGGR:	EGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
		1500
10.	CHEC:	X BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
		[_]
11.	PERC	ENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
		Less than 0.1%
12.	TYPE	OF REPORTING PERSON*
		IA
CUSI	IP NO	. 09250W107
Item	1(a)	. Name of Issuer: BlackRock Health Sciences Trust
Item	1(b)	. Address of Issuer's Principal Executive Offices:
		100 Bellevue Parkway Wilmington, Delaware 19809
Item	2(a)	. Name of Person Filing:
		Merrill Lynch & Co., Inc. ("MLCO") Merrill Lynch, Pierce, Fenner & Smith, Inc. ("MLPFS") Merrill Lynch Bank & Trust Co. FSB ("MLBT") First Republic Investment Management, Inc. ("FRIM")
Ameri BAC,	ica C	ummation of the merger on January 1, 2009 by and between Bank of prporation ("BAC") and MLCO, MLCO became a wholly owned subsidiary of BAC became the ultimate parent and controlling entity of MLCO and its ies.
Item	2 (b)	. Address of Principal Business Office, or if None, Residence:
The a	addre	ss of the principal business office of MLCO and MLPFS is:
		4 World Financial Center 250 Vesey Street New York, New York 10080
The a	addre	ss of the principal business office of MLBT is:
		C/O Merrill Lynch & Co. 300 Dandson Avenue Somerset, New Jersey 08873
The a	addre	ss of the principal business office of FRIM is:
		111 Pine Street San Francisco, California 94111
Item	2(c)	. Citizenship:
		See Item 4 of Cover Pages
Item	2 (d)	. Title of Class of Securities: Common Stock
Item	2(e)	CUSIP Numbers: 09250W107
Item	3.	If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:
	_	roker or dealer registered under Section 15 of the Exchange Act. ank as defined in Section 3(a)(6) of the Exchange Act.
CUSII	P No.	09250W107
(c)   (d)	[_] I:	nsurance company as defined in Section 3(a)19) of the Exchange Act. nvestment company registered under Section 8 of the Investment ompany Act.
	[_] A	n investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E) n employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F)

(g) [X] A parent holding company or control person in accordance with			
Rule 13d-1(b)(1)(ii)(G) A savings association as defined in Section 3(b) of the Federal			
Deposit Insurance Act  ] A church plan that is excluded from the definition of an investment			
company under Section 3(c)(14) of the Investment Company Act (j) [_] Group, in accordance with Rule 13d-1(b)(1)(ii)(J).			
Item 4. Ownership.			
Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.			
(a) Amount beneficially owned:  See Item 9 of Cover Pages			
(b) Percent of class:  See Item 11 of Cover Pages			
(c) Number of shares as to which such person has:			
(i) Sole power to vote or to direct the vote:			
.,			
(ii) Shared power to vote or to direct the vote:			
(iii) Sole power to dispose or to direct the disposition of:			
(iv) Shared power to dispose or to direct the disposition of			
See Items 5-8 of Cover Pages			
Item 5. Ownership of Five Percent or Less of a Class.			
If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following [ ]	l		
Item 6. Ownership of More Than Five Percent on Behalf of Another Person.			
Not Applicable			
Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.			
With respect to the beneficial ownership of the reporting person, see Items 5 through 11 of the cover pages to this Schedule 13G, which are incorporated herein by reference.			
CUSIP No. 09250W107			
Item 8. Identification and Classification of Members of the Group.			
Not Applicable			
Item 9. Notice of Dissolution of Group.			
Not Applicable			
Item 10. Certifications.			
By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.			
SIGNATURES			
After reasonable inquiry and to the best of my knewledge and belief. I contify			

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 17, 2009

Merrill Lynch & Co., Inc. Merrill Lynch, Pierce, Fenner & Smith, Inc.

By: /s/ Pia K. Thompson

Name: Pia K. Thompson Title: Assistant Secretary Merrill Lynch Bank & Trust Co. FSB

By: /s/ Jennifer Marre

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Name: Jennifer Marre Title: First Vice President

First Republic Investment Management, Inc.

By: /s/ Charles Christofilis

Name: Charles Christofilis Title: Chief Compliance Officer

\* Executed pursuant to a Power of Attorney, dated November 17, 1995, a copy of which is attached hereto as Exhibit A.

Schedule 13G Exhibit A

## Power of Attorney

The undersigned, Merrill Lynch & Co., Inc. (the "Corporation"), a corporation duly organized under the laws of Delaware, with its principal place of business at World Financial Center, North Tower, 250 Vesey Street, New York, New York 10281 does hereby make, constitute and appoint Richard B. Alsop, Richard D. Kreuder, Andrea Lowenthal, Gregory T. Russo, or any individual from time to time elected or appointed as secretary or an assistant secretary of the Corporation, acting severally, each of whose address is Merrill Lynch & Co., Inc., World Financial Center, North Tower, 250 Vesey Street, New York, New York 10281, as its true and lawful attorneysin-fact, for it and in its name, place and stead (i) to execute on behalf of the Corporation and cause to be filed and/or delivered, as required under Section 13(d) of the Securities Exchange Act of 1934 (the "Act") and the regulations thereunder, any number, as appropriate, of original, copies, or electronic filings of the Securities and Exchange Commission Schedule 13D or Schedule 13G Beneficial Ownership Reports (together with any amendments and joint filing agreements under Rule 13d-1(f)(1) of the Act, as may be required thereto) to be filed and/or delivered with respect to any equity security (as defined in Rule 13d-1(d) under the Act) beneficially owned by the undersigned and which must be reported by the undersigned pursuant to Section 13(d) of the Act and the regulations thereunder, (ii) to execute on behalf of the Corporation and cause to be filed and/or delivered, any number, as appropriate, of original, copies or electronic filings of any forms (including without limitation), Securities and Exchange Commission Forms 3, 4 and 5) required to be filed pursuant to Section 16(a) of the Act and the regulations thereunder, and (iii) generally to take such other actions and perform such other things necessary to effectuate the foregoing as fully in a all respects as if the undersigned could do if personally present.

This Power of Attorney shall remain in effect until revoked, in writing, by the undersigned.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney, this  $17 \, \text{th}$  day of November 1995.

MERRILL LYNCH & CO., INC.

By: /s/ David H. Komansky

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Name: David H. Komansky

Title: President and Chief Operating Officer

## EXHIBIT 99.1 - JOINT FILING AGREEMENT

The undersigned hereby agree that they are filing this statement jointly pursuant to Rule 13d-1(k) (1). Each of them is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

In accordance with Rule 13d-1(k) (1) promulgated under the Securities and Exchange Act of 1934, as amended, the undersigned hereby agree to the joint filing with each other on behalf of each of them of to such a statement on Schedule 13G with respect to the common stock of beneficially owned by each of them. This Joint Filing Agreement shall be included as an exhibit to such Schedule 13G.

Dated: February 17, 2009

Merrill Lynch & Co., Inc.

Merrill Lynch, Pierce, Fenner & Smith, Inc.

By:

/s/ Pia K. Thompson

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Pia K. Thompson Assistant Secretary

Merrill Lynch Bank & Trust Co. FSB

By:

/s/ Jennifer Marre

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Jennifer Marre First Vice President

First Republic Investment Management, Inc.

Ву:

/s/ Charles Christofilis

Charles Christofilis

Chief Compliance Officer