#### BLACKROCK MUNIHOLDINGS FUND INC Form N-Q March 31, 2009

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 811-08081

Name of Fund: BlackRock MuniHoldings Fund, Inc. (MHD)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Donald C. Burke, Chief Executive Officer, BlackRock MuniHoldings Fund, Inc., 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: 04/30/2009

Date of reporting period: 11/01/2008 01/31/2009

Item 1 Schedule of Investments

### BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

		Par	
State	Municipal Bonds	(000)	Value
Alabama - 2.8%	Camden, Alabama, IDB, Exempt Facilities Revenue Bonds		
	(Weyerhaeuser Company), Series A, 6.125%, 12/01/13 (a)	\$ 1,750	\$ 2,087,890
	Jefferson County, Alabama, Limited Obligation School Warrants,		
	Series A, 5%, 1/01/24	4,550	2,916,823
			5,004,713
	Maricopa County, Arizona, IDA, Education Revenue Bonds		
Arizona - 5.6%	(Arizona		
	Charter Schools Project 1), Series A, 6.50%, 7/01/12	500	446,815
	Maricopa County, Arizona, IDA, Education Revenue Bonds		
	(Arizona		
	Charter Schools Project 1), Series A, 6.75%, 7/01/29	2,200	1,456,730
	Phoenix, Arizona, IDA, Airport Facility, Revenue Refunding		
	Bonds		
	(America West Airlines, Inc. Project), AMT, 6.30%, 4/01/23	2,215	1,293,006

Binal County Avizana COR 59/ 10/01/00	1 000	040.070
Pinal County, Arizona, COP, 5%, 12/01/29 Salt Verde Financial Corporation, Arizona, Senior Gas Revenue	1,000	843,070
Bonds,		
5%, 12/01/32	3,505	2,338,221
Salt Verde Financial Corporation, Arizona, Senior Gas Revenue		
Bonds,		
5%, 12/01/37	4,905	3,182,707
Show Low, Arizona, Improvement District Number 5, Special		
Assessment Bonds, 6.375%, 1/01/15	365	341,830
		9,902,379
Agua Caliente Band of Cahuilla Indians, California, Casino		
Revenue		
Bonds, 5.60%, 7/01/13	875	782,451
California Pollution Control Financing Authority, PCR, Refunding		
(Pacific Gas & Electric), AMT, Series A, 5.35%, 12/01/16 (b)	6,810	6,384,035
California State, GO, Refunding, 5%, 6/01/32	2,455	2,245,171
California State Public Works Board, Lease Revenue Bonds		
(Department of Corrections), Series C, 5.25%, 6/01/28	3,145	2,921,076
California Statewide Communities Development Authority,		
Health		
Facility Revenue Bonds (Memorial Health Services), Series A,		
6%, 10/01/23	3,870	3,916,479
East Side Union High School District, California, Santa Clara		
County,		
GO (Election of 2002), Series D, 5%, 8/01/21 (c)	2,000	2,074,660
Golden State Tobacco Securitization Corporation of		
California, Tobacco Settlement Revenue Bonds, Series A-3,		
7.875%, 6/01/13 (a)	1,165	1,441,035
Montebello, California, Unified School District, GO,	,	, ,
5.61%, 8/01/22 (b)(d)(e)	2,405	1,186,435
0.0.70, 0.0 // EE (0/(0/(0/	2,100	1,100,100

#### **Portfolio Abbreviations**

California - 15.0%

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the list below.

AMT	Alternative Minimum Tax (subject to)	IDA	Industrial Development Authority
COP	Certificates of Participation	IDB	Industrial Development Board
EDA	Economic Development Authority	IDR	Industrial Development Revenue Bonds
GO	General Obligation Bonds	PCR	Pollution Control Revenue Bonds
HDA	Housing Development Authority	S/F	Single-Family
HFA	Housing Finance Agency		

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## BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

(Percentages shown are based on Net Assets)

Par

State	Municipal Bonds  Montebello, California, Unified School District, GO,	(000)	Value
	5.61%, 8/01/23 (b)(d)(e) San Jose, California, Airport Revenue Refunding Bonds, AMT, Series	\$ 2,455	\$ 1,118,130
	A, 5.50%, 3/01/32 (f)	5,210	4,437,097 26,506,569
Colorado - 3.9%	Colorado Health Facilities Authority, Revenue Refunding Bonds (Poudre Valley Health Care), 5.20%, 3/01/31 (g) Colorado Health Facilities Authority, Revenue Refunding Bonds	500	441,355
	(Poudre Valley Health Care), Series B, 5.25%, 3/01/36 (g) Colorado Health Facilities Authority, Revenue Refunding Bonds	1,000	867,820
	(Poudre Valley Health Care), Series C, 5.25%, 3/01/40 (g) Elk Valley, Colorado, Public Improvement Revenue Bonds (Public	1,750	1,499,172
	Improvement Fee), Series A, 7.35%, 9/01/31 Plaza Metropolitan District Number 1, Colorado, Tax Allocation	2,645	2,013,718
	Revenue Bonds (Public Improvement Fees), 8.125%, 12/01/25 University of Colorado, Enterprise System Revenue Bonds, Series A,	1,000	818,680
	5.375%, 6/01/38	1,250	1,266,225 6,906,970
Connecticut - 2.4%	Connecticut State Development Authority, Airport Facility Revenue Bonds (Learjet, Inc. Project), AMT, 7.95%, 4/01/26 Connecticut State Development Authority, IDR (AFCO Cargo BDL-LLC	2,165	1,843,606
	Project), AMT, 8%, 4/01/30	2,735	2,303,636 4,147,242
Florida - 8.2%	Greater Orlando Aviation Authority, Florida, Airport Facilities Revenue Bonds (JetBlue Airways Corp.), AMT, 6.50%, 11/15/36 Hillsborough County, Florida, IDA, Hospital Revenue Bonds (H. Lee	2,095	1,224,402
	Moffitt Cancer Center Project), Series A, 5.25%, 7/01/37 Miami-Dade County, Florida, Aviation Revenue Refunding Bonds	3,190	2,410,747
	(Miami International Airport), AMT, Series A, 5.25%, 10/01/38 (h) Miami-Dade County, Florida, Special Obligation Revenue Bonds,	1,795	1,467,233
	Sub-Series A, 5.24%, 10/01/37 (b)(e) Midtown Miami, Florida, Community Development District, Special	2,340	303,568
	Assessment Revenue Bonds, Series A, 6.25%, 5/01/37 Midtown Miami, Florida, Community Development District, Special	2,250	1,404,270
	Assessment Revenue Bonds, Series B, 6.50%, 5/01/37 Orange County, Florida, Health Facilities Authority, Hospital Revenue	2,530	1,636,404
	Bonds (Orlando Regional Healthcare), 6%, 12/01/12 (a) Orlando, Florida, Urban Community Development District,	3,225	3,757,415
	Capital Improvement Special Assessment Bonds, Series A, 6.95%, 5/01/11 (a) Palm Coast Park Community Development District, Florida, Special	800	893,008
	Assessment Revenue Bonds, 5.70%, 5/01/37 Preserve at Wilderness Lake, Florida, Community Development	710	375,150
	District, Capital Improvement Bonds, Series A, 5.90%, 5/01/34	1,580	1,019,432 14,491,629

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## BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

State	Municipal Bonds	Par (000)	Value
Georgia - 3.7%	Atlanta, Georgia, Tax Allocation Refunding Bonds (Atlantic Station	(555)	
J	Project), 5.25%, 12/01/20 (h)	\$ 1,000	\$ 1,044,260
	Atlanta, Georgia, Tax Allocation Refunding Bonds (Atlantic Station	, ,	. , ,
	Project), 5.25%, 12/01/21 (h)	2,000	2,047,420
	Atlanta, Georgia, Tax Allocation Refunding Bonds (Atlantic Station		
	Project), 5.25%, 12/01/22 (h) Main Street Natural Gas, Inc., Georgia, Gas Project Revenue	1,000	1,008,860
	Bonds,		
	Series A, 6.375%, 7/15/38 (i)(j)	1,185	234,026
	Private Colleges and Universities Authority, Georgia, Revenue Refunding Bonds (Emory University Project), Series C, 5%,		
	9/01/38	2,260	2,228,970 6,563,536
Illinois - 3.3%	Chicago, Illinois, Special Assessment Bonds (Lake Shore East),		
	6.75%, 12/01/32	1,200	801,828
	Illinois HDA, Homeowner Mortgage Revenue Bonds, AMT,		
	Sub-Series C-2, 5.35%, 2/01/27	4,000	3,758,000
	Illinois State Finance Authority Revenue Bonds (Landing At Plymouth		
	Place Project), Series A, 6%, 5/15/25	700	490,371
	Illinois State Finance Authority Revenue Bonds (Monarch Landing,		
	Inc. Project), Series A, 7%, 12/01/37	1,010	674,670
			5,724,869
Kentucky - 1.1%	Louisville and Jefferson Counties, Kentucky, Metropolitan Sewer		
	District, Sewer and Drain System Revenue Bonds, Series A,		
	5.50%, 5/15/34 (b)	2,000	2,001,480
	Louisiana Local Government Environmental Facilities and		
Louisiana - 5.8%	Community		
	Development Authority Revenue Bonds (Westlake Chemical		
	Corporation), 6.75%, 11/01/32	3,500	2,430,820
	Louisiana Public Facilities Authority, Hospital Revenue Bonds		
	(Franciscan Missionaries of Our Lady Health System, Inc.),		
	Series A, 5.25%, 8/15/36	4,115	3,199,577
	Louisiana Public Facilities Authority Revenue Bonds (Black & Gold		
	Facilities Project), Series A, 5%, 7/01/39 (k) New Orleans, Louisiana, Financing Authority Revenue Bonds	3,815	2,673,399
	(Xavier		
	University of Louisiana Project), 5.30%, 6/01/12 (a)(b)	1,750	1,963,133 10,266,929
Maryland - 3.5%	Anne Arundel County, Maryland, Special Obligation Revenue Bonds		
•	(Arundel Mills Project), 7.10%, 7/01/09 (a)	1,870	1,950,840
	Baltimore, Maryland, Convention Center Hotel Revenue Bonds,		
	Senior Series A, 5.25%, 9/01/39 (c)(I)	1,385	1,385,789

Maryland State Economic Development Corporation, Student		
Housing Revenue Bonds (University of Maryland College Park		
Project), 6%, 6/01/13 (a)	760	904,446
Maryland State Energy Financing Administration, Limited		
Obligation Revenue Bonds (Cogeneration-AES Warrior Run),		
AMT, 7.40%, 9/01/19	2,750	1,949,200
		6,190,275

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## BlackRock MuniHoldings Fund, Inc.

State	Municipal Bonds	Par (000)	Value
	Massachusetts State, HFA, Housing Revenue Bonds, AMT,		
Massachusetts - 1.4%	Series A,		
	5.25%, 12/01/48	\$ 2,900	\$ 2,439,016
Michigan - 2.0%	Flint, Michigan, Hospital Building Authority, Revenue Refunding Bonds (Hurley Medical Center), Series A, 6%, 7/01/20 (m) Michigan State Strategic Fund, Limited Obligation Revenue Refunding Bonds (Detroit Edison Company Pollution Control Project),	1,400	1,093,078
	AMT,		
	Series B, 5.65%, 9/01/29	3,000	2,507,340 3,600,418
Minnesota - 3.4%	Minneapolis, Minnesota, Community Development Agency, Supported Development Revenue Refunding Bonds, Series G-3,		
	5.45%, 12/01/11 (a) Minneapolis, Minnesota, Health Care System Revenue Refunding	3,500	3,892,735
	Bonds (Fairview Health Services), Series A, 6.75%, 11/15/32	2,135	2,160,620 6,053,355
Mississippi - 2.3%	Mississippi Business Finance Corporation, Mississippi, PCR, Refunding		
	(System Energy Resources, Inc. Project), 5.90%, 5/01/22 Mississippi Development Bank, Special Obligation Revenue Refunding Bonds (Gulfport Water and Sewer System Project),	2,500	2,031,425
	5.25%, 7/01/17 (g) Mississippi Development Bank, Special Obligation Revenue Refunding Bonds (Gulfport Water and Sewer System Project),	1,000	1,143,830
	5.25%, 7/01/19 (g)	810	901,579 4,076,834
Missouri - 0.4%	Missouri State Development Finance Board, Infrastructure Facilities		, ,
	Revenue Refunding Bonds (Branson), Series A, 5.50%, 12/01/32  New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75%,	1,000	772,060
New Jersey - 9.3%	6/15/29	5,385	4,007,463

	New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75%, 6/15/34	2,280	1,642,261
	New Jersey EDA, Retirement Community Revenue Bonds (Cedar Crest		
	Village Inc. Facility), Series A, 7.25%, 11/15/11 (a) New Jersey EDA, Retirement Community Revenue Bonds (Seabrook	1,475	1,692,504
	Village, Inc.), Series A, 8.25%, 11/15/10 (a)	2,600	2,947,568
	New Jersey EDA, Special Facility Revenue Bonds (Continental		
	Airlines, Inc. Project), AMT, 6.625%, 9/15/12	1,000	825,220
	New Jersey EDA, Special Facility Revenue Bonds (Continental		
	Airlines, Inc. Project), AMT, 6.25%, 9/15/29	2,950	1,843,691
	New Jersey State Turnpike Authority, Turnpike Revenue Bonds,		
	Series C, 5%, 1/01/30 (g)	3,500	3,459,575
			16,418,282
	Dutchess County, New York, IDA, Civic Facility Revenue		
· 12.8%	Refunding		
	Bonds (Saint Francis Hospital), Series A, 7.50%, 3/01/29	1,100	981,563
	Long Island Power Authority, New York, Electric System Revenue		
	Refunding Bonds, Series A, 5.75%, 4/01/39 New York City, New York, City IDA, Civic Facility Revenue	1,450	1,437,559
	Bonds,		
	Series C, 6.80%, 6/01/28	535	502,194

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## BlackRock MuniHoldings Fund, Inc.

New York -

(Percentages shown are based on Net Assets)

Schedule of Investments January 31, 2009 (Unaudited)

State	Municipal Bonds	Par (000)	Value
	New York City, New York, City IDA, Special Facility Revenue Bonds		
	(Continental Airlines, Inc. Project), AMT, 8%, 11/01/12 New York City, New York, City IDA, Special Facility Revenue Bonds	\$ 725 \$	625,247
	(Continental Airlines, Inc. Project), AMT, 8.375%, 11/01/16  New York City, New York, City Transitional Finance Authority, Building Aid Revenue Refunding Bonds, Series S-1, 4.50%,	725	529,330
	1/15/38  New York City, New York, Sales Tax Asset Receivable  Corporation	700	586,761
	Revenue Bonds, Series A, 5%, 10/15/20 (b) Tobacco Settlement Financing Corporation of New York Revenue	6,615	7,195,929
	Bonds, Series A-1, 5.50%, 6/01/18 Tobacco Settlement Financing Corporation of New York Revenue	3,150	3,251,304
	Bonds, Series C-1, 5.50%, 6/01/17	3,500	3,596,110

Tobacco Settlement Financing Corporation of New York		
Revenue		
Bonds, Series C-1, 5.50%, 6/01/22	1,400	1,425,242
•		
6.50%, 1/01/13 (a)	2,080	2,496,395
		22,627,634
American Municipal Power Inc. Ohio Poyenus Potunding		
Bonds		
(Prairie State Energy Campus Project), Series A, 5%, 2/15/38 Buckeye Tobacco Settlement Financing Authority, Ohio,	2,455	2,235,007
Settlement Asset-Backed Bonds, Series A-2, 6.50%, 6/01/47	2,160	1,341,338
		3,576,345
Tulsa County, Oklahoma, Home Finance Authority, S/F		
Mortgage		
Revenue Refunding Bonds, AMT, Series C, 5.25%, 12/01/38 (n)	1,200	990,336
Bucks County, Pennsylvania, IDA, Retirement Community		
Pennsylvania Economic Development Financing Authority,	1,700	1,071,493
•		
Series B, 6.125%, 11/01/27	3,500	1,847,230
Philadelphia, Pennsylvania, Authority for IDR, Commercial		
Development, 7.75%, 12/01/17 Philadelphia, Pennsylvania, Authority for Industrial	725	613,676
Senior Living Revenue Bonds (Arbor House, Inc. Project),		
	1 105	773,964
	1,105	773,304
Development,		
Senior Living Revenue Bonds (Saligman House Project), Series		
	1,245	872,023
(Guthrie Healthcare System), Series B, 7.125%, 12/01/11 (a)	3,500	4,304,650
		9,483,036
Dhada Jaland Ctata Haalib and Edwartianal Building		
	Revenue Bonds, Series C-1, 5.50%, 6/01/22 Westchester County, New York, IDA, Continuing Care Retirement, Mortgage Revenue Bonds (Kendal on Hudson Project), Series A, 6.50%, 1/01/13 (a)  American Municipal Power, Inc., Ohio, Revenue Refunding Bonds (Prairie State Energy Campus Project), Series A, 5%, 2/15/38 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Bonds, Series A-2, 6.50%, 6/01/47  Tulsa County, Oklahoma, Home Finance Authority, S/F Mortgage Revenue Refunding Bonds, AMT, Series C, 5.25%, 12/01/38 (n)  Bucks County, Pennsylvania, IDA, Retirement Community Revenue Bonds (Ann's Choice, Inc.), Series A, 6.25%, 1/01/35 Pennsylvania Economic Development Financing Authority, Exempt Facilities Revenue Bonds (National Gypsum Company), AMT, Series B, 6.125%, 11/01/27 Philadelphia, Pennsylvania, Authority for IDR, Commercial Development, Senior Living Revenue Bonds (Arbor House, Inc. Project), Series E, 6.10%, 7/01/33 Philadelphia, Pennsylvania, Authority for Industrial Development, Senior Living Revenue Bonds (Saligman House Project), Series C, 6.10%, 7/01/33 Sayre, Pennsylvania, Health Care Facilities Authority, Revenue Bonds (Guthrie Healthcare System), Series B, 7.125%, 12/01/11 (a)	Revenue Bonds, Series C-1, 5.50%, 6/01/22 Westchester County, New York, IDA, Continuing Care Retirement, Mortgage Revenue Bonds (Kendal on Hudson Project), Series A, 6.50%, 1/01/13 (a)  2,080  American Municipal Power, Inc., Ohio, Revenue Refunding Bonds (Prairie State Energy Campus Project), Series A, 5%, 2/15/38 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Bonds, Series A-2, 6.50%, 6/01/47  Tulsa County, Oklahoma, Home Finance Authority, S/F Mortgage Revenue Refunding Bonds, AMT, Series C, 5.25%, 12/01/38 (n)  Bucks County, Pennsylvania, IDA, Retirement Community Revenue Bonds (Ann's Choice, Inc.), Series A, 6.25%, 1/01/35 Pennsylvania Economic Development Financing Authority, Exempt Facilities Revenue Bonds (National Gypsum Company), AMT, Series B, 6.125%, 11/01/27 Philadelphia, Pennsylvania, Authority for Industrial Development, Senior Living Revenue Bonds (Arbor House, Inc. Project), Series E, 6.10%, 7/01/33 Philadelphia, Pennsylvania, Authority for Industrial Development, Senior Living Revenue Bonds (Saligman House Project), Series C, 6.10%, 7/01/33 Sayre, Pennsylvania, Health Care Facilities Authority, Revenue Bonds (Guthrie Healthcare System), Series B, 7.125%, 12/01/11 (a) 3,500

Rhode Island - 1.9%

Rhode Island State Health and Educational Building Corporation,

 $\label{thm:condition} \mbox{Hospital Financing Revenue Bonds (Lifespan Obligation Group)},$ 

6.50%, 8/15/12 (a) 2,820 3,271,708

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## BlackRock MuniHoldings Fund, Inc.

(Percentages shown are based on Net Assets)

Schedule of Investments January 31, 2009 (Unaudited)

State	Municipal Bonds	Par (000)	Value
South Carolina - 2.0%	Medical University Hospital Authority, South Carolina, Hospital Facilities Revenue Refunding Bonds, Series A, 6.375%,	(555)	
	8/15/12 (a)	\$ 3,020	\$ 3,533,913
South Dakota - 0.9%	South Dakota State Health and Educational Facilities Authority		
	Revenue Bonds (Sanford Health), 5%, 11/01/40 Hardeman County, Tennessee, Correctional Facilities	1,825	1,532,325
Tennessee - 4.9%	Corporation		
	Revenue Bonds, 7.75%, 8/01/17 Shelby County, Tennessee, Health, Educational and Housing Facility	3,750	3,373,987
	Board, Hospital Revenue Refunding Bonds (Methodist Healthcare),		
	6.50%, 9/01/12 (a) Tennessee Educational Loan Revenue Bonds (Educational Funding	1,845	2,158,816
	South, Inc.), AMT, Senior Series B, 6.20%, 12/01/21	3,160	3,159,810 8,692,613
	Brazos River Authority, Texas, PCR, Refunding (TXU Energy		-,,-
Texas - 13.9%	Company		
	Project), AMT, Series C, 5.75%, 5/01/36 Brazos River, Texas, Harbor Navigation District, Brazoria	2,660	1,750,280
	County Environmental Revenue Refunding Bonds (Dow Chemical Company		
	Project), AMT, Series A-7, 6.625%, 5/15/33 Harris County, Texas, Health Facilities Development	3,655	2,718,552
	Corporation, Hospital Revenue Refunding Bonds (Memorial Hermann Healthcare		
	System), Series B, 7.25%, 12/01/35	1,910	1,994,327
	Lower Colorado River Authority, Texas, PCR (Samsung Austin	1,310	1,554,627
	Semiconductor), AMT, 6.375%, 4/01/27	3,000	2,359,320
	Matagorda, Texas, Hospital District Revenue Bonds,	-,	_,,,
	5%, 2/15/35 (o) North Texas Tollway Authority, System Revenue Refunding	4,500	3,879,045
	Bonds, Second Tier, Series F, 6.125%, 1/01/31 San Antonio Energy Acquisition Public Facilities Corporation, Texas,	4,190	4,012,176

	Gas Supply Revenue Bonds, 5.50%, 8/01/23 San Antonio Energy Acquisition Public Facilities Corporation,	2,425	1,848,335
	Texas,		
	Gas Supply Revenue Bonds, 5.50%, 8/01/24 San Antonio Energy Acquisition Public Facilities Corporation,	1,100	832,447
	Texas,	1 100	000 000
	Gas Supply Revenue Bonds, 5.50%, 8/01/25	1,120	838,286
	Texas State Department of Housing and Community Affairs, Residential Mortgage Revenue Bonds, AMT, Series A,		
		1 745	1 705 501
	5.70%, 1/01/33 (n)(p) Texas State Department of Housing and Community Affairs, Residential Mortgage Revenue Refunding Bonds, AMT, Series	1,745	1,765,591
	В,		
	5.25%, 7/01/22 (n)(p)	2,565	2,514,085
			24,512,444
Vermont - 1.3%	Vermont Educational and Health Buildings Financing Agency, Revenue Bonds (Developmental and Mental Health), Series A,		
	6%, 6/15/17 Chesterfield County, Virginia, IDA, PCR (Virginia Electric and	2,370	2,324,069
Virginia - 9.5%	Power		
	Company), Series A, 5.875%, 6/01/17	1,150	1,203,245

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## BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

04-4-	Municipal Danida	Par	Value
State	Municipal Bonds Fairfax County, Virginia, EDA, Resource Recovery Revenue Refunding	(000)	Value
	Bonds, AMT, Series A, 6.10%, 2/01/11 (f) Tobacco Settlement Financing Corporation of Virginia, Asset-Backed	\$ 3,000	\$ 3,153,300
	Revenue Bonds, 5.625%, 6/01/15 (a) Virginia State, HDA, Commonwealth Mortgage Revenue Bonds.	1,290	1,512,035
	Series H, Sub-Series H-1, 5.375%, 7/01/36 (b)	10,940	10,808,064 16,676,644
	Seattle, Washington, Housing Authority Revenue Bonds		
Washington - 0.6%	(Replacement		
	Housing Project), 6.125%, 12/01/32 Wisconsin State Health and Educational Facilities Authority	1,325	1,010,949
Wisconsin - 1.3%	Revenue		
	Bonds (New Castle Place Project), Series A, 7%, 12/01/31 Wisconsin State Health and Educational Facilities Authority	825	607,456
	Revenue		
	Bonds (SynergyHealth, Inc.), 6%, 11/15/32	1,755	1,635,239 2,242,695
Puerto Rico - 0.5%	Puerto Rico Industrial, Medical and Environmental Pollution Control		

	Facilities Financing Authority, Special Facilities Revenue Bonds		
	(American Airlines, Inc.), Series A, 6.45%, 12/01/25 Virgin Islands Government Refinery Facilities, Revenue	2,060	938,206
U.S. Virgin Islands - 1.5%	Refunding		
	Bonds (Hovensa Coker Project), AMT, 6.50%, 7/01/21	3,460	2,661,951
	Total Municipal Bonds - 133.2%  Municipal Bonds Transferred to Tender Option Bond		235,141,424
	<b>Trusts (q)</b> Sequoia, California, Unified High School District, GO,		
California - 3.5%	Refunding,		
	Series B, 5.50%, 7/01/35 (g) Tustin, California, Unified School District, Senior Lien Special	3,494	3,540,855
	Tax		
	Bonds (Community Facilities District Number 97-1), Series A,	0.010	0.000 554
	5%, 9/01/32 (g)	2,910	2,693,554
Colorado 0.19/	Coloredo Hoolth Facilities Authority Poyenus Panda (Catholic		6,234,409
Colorado - 2.1%	Colorado Health Facilities Authority Revenue Bonds (Catholic	0.500	0.005.047
	Health), Series C-3, 5.10%, 10/01/41 (g)	2,580	2,225,947
	Colorado Health Facilities Authority Revenue Bonds (Catholic	1.650	1 406 771
	Health), Series C-7, 5%, 9/01/36 (g)	1,650	1,426,771 3,652,718
Connecticut - 3.6%	Connecticut State Health and Educational Facilities Authority		3,032,710
Connecticut - 5.0 %	Revenue Bonds (Yale University), Series T-1, 4.70%, 7/01/29	3,180	3,184,261
	Connecticut State Health and Educational Facilities Authority	3,100	3,104,201
	Revenue Bonds (Yale University), Series X-3, 4.85%, 7/01/37	3,270	3,215,358
	rievenue bonds (Tale Onliversity), Genes X-5, 4.05%, 1/01/31	3,270	6,399,619
	Massachusetts State School Building Authority, Dedicated		0,000,010
Massachusetts - 2.8%	Sales		
	Tax Revenue Bonds, Series A, 5%, 8/15/30 (g) New York City, New York, Sales Tax Asset Receivable	4,994	5,004,932
New York - 2.5%	Corporation		
	Revenue Bonds, Series A, 5.25%, 10/15/27 (f)	4,240	4,357,406
Tennessee - 1.2%	Shelby County, Tennessee, Health, Educational and Housing		
	Facility Board, Hospital Revenue Refunding Bonds (Saint Jude		
	Children's Research Hospital), 5%, 7/01/31	2,250	2,070,630

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## BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

		Par	
	Municipal Bonds Transferred to Tender Option Bond		
State	Trusts (q)	(000)	Value
Texas - 7.1%	Harris County, Texas, Toll Road Revenue Refunding Bonds,		
	Senior Lien, Series A, 5.25%, 8/15/35 (g)	\$ 11,760	\$ 12,562,267
Virginia - 3.5%	University of Virginia, Revenue Refunding Bonds, 5%, 6/01/40 Virginia State, HDA, Commonwealth Mortgage Revenue Bonds,	3,750	3,758,063

	Series H, Sub-Series H-1, 5.35%, 7/01/31 (b)	2,370	2,370,427 6,128,490
Washington - 1.0%	Central Puget Sound Regional Transportation Authority,		
	Washington, Sales and Use Tax Revenue Bonds, Series A,		
	5%, 11/01/32 (g)	1,860	1,821,496
	Total Municipal Bonds Transferred to Tender Option Bond		
	Trusts - 27.3%		48,231,967
	Total Long-Term Investments (Cost - \$314,956,267) -		
	160.5%		283,373,391
	Short-Term Securities	Shares	
Money Market Fund -	Merrill Lynch Institutional Tax-Exempt Fund, 0.60% (r)(s)	7,108,893	7,108,893
4.0%			
	Total Short-Term Securities (Cost - \$7,108,893) - 4.0%		7,108,893
	Total Investments (Cost - \$322,065,160*) - 164.5%		290,482,284
	Other Assets Less Liabilities - 2.5%		4,365,161
	Liability for Trust Certificates, Including Interest Expense and		
	Fees Payable - (14.9)%		(26,368,783)
	Preferred Shares, at Redemption Value - (52.1)%		(91,939,584)
	Net Assets Applicable to Common Shares - 100.0%		\$ 176,539,078

<sup>\*</sup> The cost and unrealized appreciation (depreciation) of investments as of January 31, 2009, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 294,079,979
Gross unrealized appreciation	\$ 7,880,632
Gross unrealized depreciation	(37,751,283)
Net unrealized depreciation	\$ (29,870,651)

- (a) US government securities, held in escrow, are used to pay interest on this security as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (b) MBIA Insured.
- (c) XL Capital Insured.
- (d) FGIC Insured.
- (e) Represents a zero-coupon bond. Rate shown reflects the effective yield as of report date.
- (f) AMBAC Insured.
- (g) FSA Insured.
- (h) Assured Guaranty Insured.
- (i) Non-income producing security.
- (j) Issuer filed for bankruptcy and/or is in default of interest payments.
- (k) CIFG Insured.
- (I) BHAC Insured.
- (m) ACA Insured.
- (n) GNMA Collateralized.
- (o) FHA Insured.

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### BlackRock MuniHoldings Fund, Inc.

Schedule of Investments January 31, 2009 (Unaudited)

- (p) FNMA Collateralized.
- (q) Securities represent bonds transferred to a tender option bond trust in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (r) Investments in companies considered to be an affiliate of the Fund, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

AffiliateNet ActivityIncomeMerrill Lynch Institutional Tax-Exempt Fund7,099,922\$ 22,995

(s) Represents the current yield as of report date.

Effective May 1, 2008, the Fund adopted Financial Accounting Standards Board Statement of Financial Accounting Standards No. 157, "Fair Value Measurements" ("FAS 157"). FAS 157 clarifies the definition of fair value, establishes a framework for measuring fair values and requires additional disclosures about the use of fair value measurements. Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 - price quotations in active markets/exchanges for identical securities

Level 2 - other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks, and default rates) or other market-corroborated inputs)

Level 3 - unobservable inputs based on the best information available in the circumstance, to the extent observable inputs are not available (including the Fund's own assumption used in determining the fair value of investments)

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

The following table summarizes the inputs used as of January 31, 2009 in determining the fair valuation of the Fund's investments:

Valuation	Investments in
Inputs	Securities
	Assets
Level 1	\$ 7,108,893
Level 2	283,373,391
Level 3	-
Total	\$ 290,482,284
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#### Item 2 Controls and Procedures

2(a) The registrant s principal executive and principal financial officers or persons performing similar functions have concluded that the registrant s 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 13(a)-15(b) under the Securities Exchange Act of 1934, as amended.

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

By: /s/ Donald C. Burke

Donald C. Burke

Chief Executive Officer of

BlackRock MuniHoldings Fund, Inc.

Date: March 25, 2009

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 MuniHoldings Fund, Inc.

Date: March 25, 2009

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniHoldings Fund, Inc.

Date: March 25, 2009