

BLACKROCK MUNIHOLDINGS QUALITY FUND, INC.

Form N-Q

September 26, 2016

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: 811-08707

Name of Fund: BlackRock MuniHoldings Quality Fund, Inc. (MUS)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniHoldings Quality Fund, Inc., 55 East 52<sup>nd</sup> Street, New York, NY 10055

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

Date of fiscal year end: 04/30/2017

Date of reporting period: 07/31/2016

Item 1 Schedule of Investments

## Schedule of Investments July 31, 2016 (Unaudited)

## BlackRock MuniHoldings Quality Fund, Inc. (MUS)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Alabama 1.7%</b>		
City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children s Hospital (AGC), 6.00%, 6/01/19 (a)	\$ 2,330	\$ 2,670,553
City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project, Series A, 5.38%, 12/01/35	565	634,574
		3,305,127
<b>California 25.9%</b>		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/38	2,895	3,174,657
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 6.00%, 8/15/42	1,730	2,069,737
Central Unified School District, GO, Election of 2008, Series A (AGC), 5.63%, 8/01/19 (a)	1,325	1,522,239
City & County of San Francisco California Airports Commission, Refunding ARB, AMT, Series A: 2nd, 5.50%, 5/01/28	1,085	1,328,951
2nd, 5.25%, 5/01/33	850	1,007,786
5.00%, 5/01/44	1,090	1,270,122
City of Los Angeles California Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38	1,575	1,708,576
City of San Jose California, Refunding ARB, Series A-1, AMT: 5.50%, 3/01/30	2,400	2,815,248
5.75%, 3/01/34	2,180	2,581,207
City of Sunnyvale California, Refunding RB, 5.25%, 4/01/40	1,605	1,839,218
County of Sacramento California, ARB, Senior Series A (AGC), 5.50%, 7/01/41	2,100	2,288,958
County of Ventura California Community College District, GO, Election of 2002, Series C, 5.50%, 8/01/18 (a)	1,850	2,033,113
Golden Empire Schools Financing Authority, Refunding RB, Kern High School District Projects, 0.94%, 5/01/17 (b)	1,140	1,139,681
Kern Community College District, GO, Safety, Repair & Improvement, Series C, 5.50%, 11/01/33	1,420	1,794,568
	<b>Par</b>	
	<b>(000)</b>	<b>Value</b>
<b>Municipal Bonds</b>		
<b>California (continued)</b>		
Los Angeles Community College District California, GO, Election of 2008, Series C, 5.25%, 8/01/39	\$ 1,000	\$ 1,168,430
Oceanside Unified School District, GO, Series A (AGC), 5.25%, 8/01/33	1,825	1,979,285
Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/21 (a)	1,335	1,639,807
Riverside County Public Financing Authority, RB, Capital Facilities Project, 5.25%, 11/01/40	2,500	3,097,475
San Pablo Joint Powers Financing Authority, RB, (NPFGC) (c): 0.00%, 12/01/16 (a)	4,725	2,918,627
0.00%, 12/01/24	940	605,050
0.00%, 12/01/25	840	511,207
0.00%, 12/01/26	840	483,361
State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30	1,500	1,894,500
5.50%, 11/01/31	2,465	3,107,527
State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33	725	895,643
Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40	540	672,392
University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38	4,070	4,948,998
		50,496,363
<b>Colorado 2.2%</b>		
City & County of Denver Colorado Airport System, ARB, Series A, AMT: 5.50%, 11/15/28	1,000	1,212,050
5.50%, 11/15/30	340	410,162
5.50%, 11/15/31	405	487,337

BLACKROCK MUNIHOLDINGS QUALITY FUND, INC.

JULY 31, 2016

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## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Colorado (continued)</b>		
Colorado Health Facilities Authority, RB, Hospital, NCMC, Inc. Project, Series B (AGM), 6.00%, 5/15/19 (a)	\$ 1,900	\$ 2,178,179
		4,287,728
<b>District of Columbia 1.1%</b>		
District of Columbia Water & Sewer Authority, Refunding RB, Series A, 5.50%, 10/01/18 (a)	2,000	2,210,020
<b>Florida 15.7%</b>		
City of Jacksonville Florida, Refunding RB, Series A, 5.25%, 10/01/33	400	493,364
County of Broward Florida Airport System Revenue, ARB, Series A, AMT, 5.00%, 10/01/45	2,845	3,350,613
County of Hillsborough Florida Aviation Authority, Refunding ARB, Tampa International Airport, Series A, AMT, 5.50%, 10/01/29	1,735	2,091,196
County of Lee Florida, Refunding ARB, Series A, AMT, 5.38%, 10/01/32	1,500	1,741,380
County of Lee Florida HFA, RB, S/F Housing, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40	230	234,943
County of Miami-Dade Florida, RB, Seaport: Series A, 5.38%, 10/01/33	1,015	1,198,543
Series A, 6.00%, 10/01/38	1,000	1,253,080
Series B, AMT, 6.25%, 10/01/38	460	585,419
Series B, AMT, 6.00%, 10/01/42	615	756,868
County of Miami-Dade Florida Aviation Revenue, Refunding ARB, Series A, AMT, 5.00%, 10/01/31	2,900	3,389,868
County of Miami-Dade Florida Educational Facilities Authority, RB, University Miami, Series A, 5.00%, 4/01/40	3,465	4,127,577
County of Orange Florida School Board, COP, Series A (AGC), 5.50%, 8/01/19 (a)	4,645	5,307,191
Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32	1,040	1,263,163
	<b>Par</b>	
<b>Municipal Bonds</b>		
<b>Florida (continued)</b>		
Tohopekaliga Water Authority, Refunding RB, Series A, 5.25%, 10/01/21 (a)	\$ 3,995	\$ 4,855,443
		30,648,648
<b>Hawaii 1.4%</b>		
State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25	425	515,648
5.25%, 8/01/26	460	557,474
State of Hawaii, Department of Transportation, RB, Series A, AMT, 5.00%, 7/01/45	1,500	1,760,205
		2,833,327
<b>Illinois 16.8%</b>		
City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series C, 6.50%, 1/01/41	5,225	6,358,720
Series A, 5.75%, 1/01/39	1,145	1,342,261
City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, 5.00%, 1/01/41	1,000	1,143,610
City of Chicago Illinois Transit Authority, RB: Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 12/01/18 (a)	2,000	2,248,120
Sales Tax Receipts, 5.25%, 12/01/36	1,000	1,114,370
Sales Tax Receipts, 5.25%, 12/01/40	1,790	1,988,189
City of Chicago Illinois Wastewater Transmission, RB, 2nd Lien, 5.00%, 1/01/42	2,050	2,258,034
County of Cook Illinois Community College District No. 508, GO, City College of Chicago: 5.50%, 12/01/38	2,250	2,622,802
5.25%, 12/01/43	4,015	4,603,077
Illinois Finance Authority, Refunding RB, Presence Health Network, Series C (d): 4.00%, 2/15/41	1,155	1,157,945
5.00%, 2/15/41	555	632,317
Railsplitter Tobacco Settlement Authority, RB: 5.50%, 6/01/23	1,405	1,655,020
6.00%, 6/01/28	400	479,664



## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Illinois (continued)</b>		
State of Illinois, GO:		
5.25%, 2/01/31	\$ 875	\$ 973,473
5.25%, 2/01/32	1,355	1,505,608
5.50%, 7/01/33	2,000	2,249,180
5.50%, 7/01/38	425	473,522
		32,805,912
<b>Indiana 3.7%</b>		
Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Series A, AMT, 5.00%, 7/01/40	565	640,812
Indianapolis Local Public Improvement Bond Bank, RB, Series F, 5.25%, 2/01/36	3,055	3,541,692
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	2,780	3,107,067
		7,289,571
<b>Kentucky 0.7%</b>		
County of Louisville & Jefferson Kentucky Metropolitan Government, Refunding RB, Norton Healthcare, Inc., 4.00%, 10/01/35 (d)	1,220	1,343,879
<b>Louisiana 1.6%</b>		
Lake Charles Harbor & Terminal District, RB, Series B, AMT (AGM), 5.50%, 1/01/29	1,500	1,831,500
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.50%, 5/15/29	1,215	1,339,574
		3,171,074
<b>Massachusetts 1.0%</b>		
Massachusetts Development Finance Agency, Refunding RB, Emmanuel College Issue, Series A, 4.00%, 10/01/46	520	547,081
	<b>Par</b>	
<b>Municipal Bonds</b>		
<b>Massachusetts (continued)</b>		
Massachusetts HFA, Refunding RB, Series C, AMT, 5.35%, 12/01/42	\$ 1,235	\$ 1,310,570
		1,857,651
<b>Michigan 1.1%</b>		
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, Series V, 8.25%, 9/01/18 (a)	1,910	2,213,270
<b>Minnesota 0.8%</b>		
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC):		
6.50%, 11/15/18 (a)	205	232,353
6.50%, 11/15/38	1,120	1,253,415
		1,485,768
<b>Mississippi 2.4%</b>		
Mississippi Development Bank, RB, Jackson Water & Sewer System Project (AGM), 6.88%, 12/01/40	2,595	3,520,974
Mississippi State University Educational Building Corp., Refunding RB, Mississippi State University Improvement Project, 5.25%, 8/01/38	1,000	1,222,440
		4,743,414
<b>Nevada 3.6%</b>		
County of Clark Nevada, ARB, Las Vegas-McCarran International Airport, Series A (AGM), 5.25%, 7/01/39	1,410	1,585,221
County of Clark Nevada, GO, Limited Tax, 5.00%, 6/01/38	3,500	3,757,915
County of Clark Nevada Water Reclamation District, GO, Series A, 5.25%, 7/01/19 (a)	1,500	1,689,390
		7,032,526
<b>New Jersey 8.0%</b>		
New Jersey EDA, RB, Private Activity Bond, The Goethals Bridge Replacement Project, AMT: 5.38%, 1/01/43	3,000	3,490,380

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(AGM), 5.00%, 1/01/31	790	921,274
New Jersey Health Care Facilities Financing Authority, RB, Virtua Health, Series A (AGC), 5.50%, 7/01/38	2,100	2,363,046

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## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>New Jersey (continued)</b>		
New Jersey Transportation Trust Fund Authority, RB, Transportation System:		
Series A, 5.50%, 6/15/41	\$ 1,780	\$ 1,984,736
Series A (AGC), 5.63%, 12/15/28	3,170	3,532,046
Series AA, 5.50%, 6/15/39	1,890	2,138,932
Series B, 5.25%, 6/15/36	1,000	1,106,140
		15,536,554
<b>New York 5.5%</b>		
City of New York New York Municipal Water Finance Authority, Refunding RB, 2nd General Resolution, Series EE:		
Fiscal 2009, 5.25%, 6/15/40	3,410	3,835,534
Water & Sewer System, 5.38%, 6/15/43	1,305	1,543,697
Hudson Yards Infrastructure Corp., RB, Series A, 5.75%, 2/15/47	2,510	2,967,824
Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36	2,000	2,349,720
		10,696,775
<b>Ohio 1.2%</b>		
State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1, 5.25%, 2/15/31	2,000	2,442,120
<b>Pennsylvania 5.5%</b>		
County of Westmoreland Pennsylvania Municipal Authority, Refunding RB, (BAM), 5.00%, 8/15/38 (d)		
Pennsylvania Turnpike Commission, RB:	1,180	1,400,743
Series A-1, 5.00%, 12/01/46	1,815	2,161,411
Series B, 5.00%, 12/01/45	4,990	5,949,776
Township of Bristol Pennsylvania School District, GO, 5.25%, 6/01/37	1,000	1,177,350
		10,689,280
<b>Rhode Island 0.4%</b>		
Rhode Island Health & Educational Building Corp., Refunding RB, Hospital Financing, LifeSpan Obligation Group (d):		
4.00%, 5/15/36	195	207,813
	<b>Par</b>	
<b>Municipal Bonds</b>		
	<b>(000)</b>	<b>Value</b>
<b>Rhode Island (continued)</b>		
Rhode Island Health & Educational Building Corp., Refunding RB, Hospital Financing, LifeSpan Obligation Group (d) (continued):		
5.00%, 5/15/39	\$ 430	\$ 504,670
		712,483
<b>South Carolina 5.8%</b>		
County of Charleston South Carolina, RB, Special Source, 5.25%, 12/01/38	2,180	2,686,414
County of Charleston South Carolina Airport District, ARB, Series A, AMT:		
5.50%, 7/01/38	1,000	1,176,380
6.00%, 7/01/38	1,695	2,051,916
5.50%, 7/01/41	1,000	1,177,760
South Carolina Ports Authority, RB, AMT, 5.25%, 7/01/50	1,095	1,283,778
State of South Carolina Public Service Authority, Refunding RB, Series E, 5.25%, 12/01/55	2,500	3,023,025
		11,399,273
<b>Tennessee 1.5%</b>		
Metropolitan Nashville Airport Authority, ARB, Series B, AMT, 5.00%, 7/01/40	2,500	2,957,500
<b>Texas 23.4%</b>		
Austin Community College District Public Facility Corp., RB, Educational Facilities Project, Round Rock Campus, 5.25%, 8/01/18 (a)		
City of Beaumont Texas, GO, Certificates of Obligation, 5.25%, 3/01/37	1,360	1,645,573
City of Houston Texas Utility System Revenue, Refunding RB, Combined 1st Lien, Series A (AGC):		
6.00%, 5/15/19 (a)	3,790	4,347,168

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6.00%, 11/15/35	210	241,483
Dallas Area Rapid Transit, Refunding RB:		
Senior Lien, 5.25%, 12/01/18 (a)	1,490	1,650,115
Senior Lien, 5.25%, 12/01/38	1,110	1,223,054
Series A, 5.00%, 12/01/48	1,425	1,726,644
Dallas-Fort Worth International Airport, ARB, Joint Improvement, AMT:		
Series A, 5.00%, 11/01/38	2,965	3,327,738

## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Texas (continued)</b>		
Dallas-Fort Worth International Airport, ARB, Joint Improvement, AMT (continued):		
Series H, 5.00%, 11/01/37	\$ 2,200	\$ 2,502,896
Lower Colorado River Authority, Refunding RB, 5.50%, 5/15/33	1,240	1,517,934
North Texas Tollway Authority, RB, Special Projects, Series A, 5.50%, 9/01/41	4,250	5,078,325
North Texas Tollway Authority, Refunding RB, 1st Tier System:		
(NPFGC), 5.75%, 1/01/18 (a)	1,835	1,968,625
(NPFGC), 5.75%, 1/01/40	590	628,692
Series A, 5.63%, 1/01/18 (a)	2,940	3,148,887
Series A, 5.63%, 1/01/33	3,645	3,878,134
Series S, 5.75%, 1/01/18 (a)	7,820	8,389,452
Series SE, 5.75%, 1/01/40	915	977,028
Red River Education Financing Corp., RB, Texas Christian University Project, 5.25%, 3/15/38	620	750,907
		45,734,305
<b>Virginia 1.1%</b>		
City of Lexington Virginia IDA, RB, Washington & Lee University, 5.00%, 1/01/43	570	665,743
Virginia Public School Authority, RB, Fluvanna County School Financing, 6.50%, 12/01/18 (a)	1,300	1,478,347
		2,144,090
<b>Washington 1.5%</b>		
City of Seattle Washington Municipal Light & Power, Refunding RB, Series A, 5.25%, 2/01/36	1,375	1,608,420
State of Washington, GO, Various Purposes, Series B, 5.25%, 2/01/36	1,075	1,265,221
		2,873,641
<b>Total Municipal Bonds 133.6%</b>		260,910,299
<b>Municipal Bonds Transferred to</b>		
	<b>Par</b>	
	<b>(000)</b>	<b>Value</b>
<b>Tender Option Bond Trusts (e)</b>		
<b>Colorado 3.1%</b>		
Colorado Health Facilities Authority, RB, Catholic Health, Series C-3 (AGM), 5.10%, 4/29/18 (a)	\$ 5,610	\$ 6,053,246
<b>Connecticut 1.1%</b>		
Connecticut State Health & Educational Facility Authority, Refunding RB, Trinity Health Credit Group, 5.00%, 12/01/45	1,771	2,137,515
<b>District of Columbia 0.6%</b>		
District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/18 (a)(f)	1,039	1,159,505
<b>Florida 4.2%</b>		
County of Miami-Dade Florida, GO, Building Better Communities Program, Series B-1, 6.00%, 7/01/18 (a)	7,500	8,275,875
<b>Illinois 1.4%</b>		
City of Chicago Illinois, Refunding RB, Waterworks, 2nd Lien (AGM), 5.25%, 11/01/33	2,508	2,686,875
<b>Kentucky 0.8%</b>		
Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/27	1,406	1,554,548
<b>Michigan 1.9%</b>		
Michigan State Building Authority, Refunding RB, Facilities Program, Series I, 5.00%, 10/15/45	3,020	3,610,199
<b>Nevada 5.0%</b>		
County of Clark Nevada Water Reclamation District, GO (a):		
Limited Tax, 6.00%, 7/01/18	5,000	5,518,250
Series B, 5.50%, 7/01/19	3,749	4,241,554
		9,759,804
<b>New Jersey 1.2%</b>		
New Jersey Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29	2,289	2,437,550



## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

Municipal Bonds Transferred to	Par	
	(000)	Value
<b>Tender Option Bond Trusts (e)</b>		
<b>New York 5.2%</b>		
City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 1/15/39	\$ 1,400	\$ 1,544,927
New York Liberty Development Corp., RB, 1 World Trade Center Port Authority Consolidated Bonds, 5.25%, 12/15/43	4,530	5,453,646
New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (f)	2,660	3,218,346
		10,216,919
<b>Utah 0.6%</b>		
City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41	1,005	1,105,522
<b>Municipal Bonds Transferred to</b>		
<b>Tender Option Bond Trusts (e)</b>		
<b>Total Municipal Bonds Transferred to</b>		
		48,997,558
<b>Tender Option Bond Trusts 25.1%</b>		
<b>Total Long-Term Investments</b>		
(Cost \$276,677,172) 158.7%		309,907,857
<b>Total Investments</b>		
(Cost \$276,677,172*) 158.7%		309,907,857
<b>Liabilities in Excess of Other Assets (1.6)%</b>		(3,172,783)
<b>Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (12.5)%</b>		(24,454,691)
<b>VMTP Shares, at Liquidation Value (44.6)%</b>		(87,000,000)
<b>Net Assets Applicable to Common Shares 100.0%</b>		\$ 195,280,383

\* As of July 31, 2016, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 252,544,183
Gross unrealized appreciation	\$ 33,237,914
Gross unrealized depreciation	(301,333)
Net unrealized appreciation	\$ 32,936,581

## Notes to Schedule of Investments

\* Cost for federal income tax purposes.

(a) U.S. 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.

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- (b) Variable rate security. Rate as of period end.
- (c) Zero-coupon bond.
- (d) When-issued security.
- (e) Represent bonds transferred to a TOB Trust in exchange of cash and residual certificates received by the Fund. These bonds serve as collateral in a secured borrowing.
- (f) All or a portion of security is subject to a recourse agreement. The aggregate maximum potential amount the Fund could ultimately be required to pay under the agreement, which expires on November 15, 2019, is \$2,225,641. See Note 4 of the Notes to Financial Statements for details.
- (g) During the period ended July 31, 2016, investments in issuers considered to be an affiliate of the Fund for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at April 30, 2016	Net Activity	Shares Held at July 31, 2016	Value at July 31, 2016	Net Income
BlackRock Liquidity Funds, MuniCash, Institutional Class	1,352,893	(1,352,893)			\$ 599

- (h) Current yield as of period end.

## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

## Portfolio Abbreviations

<b>AGC</b>	Assured Guarantee Corp.
<b>AGM</b>	Assured Guaranty Municipal Corp.
<b>AMT</b>	Alternative Minimum Tax (subject to)
<b>ARB</b>	Airport Revenue Bonds
<b>BAM</b>	Build America Mutual Assurance Co.
<b>BARB</b>	Building Aid Revenue Bonds
<b>COP</b>	Certificates of Participation
<b>EDA</b>	Economic Development Authority
<b>GARB</b>	General Airport Revenue Bonds
<b>GO</b>	General Obligation Bonds
<b>HFA</b>	Housing Finance Agency
<b>IDA</b>	Industrial Development Authority
<b>IDB</b>	Industrial Development Board
<b>LRB</b>	Lease Revenue Bonds
<b>NPFGC</b>	National Public Finance Guarantee Corp.
<b>RB</b>	Revenue Bonds
<b>S/F</b>	Single-Family

## Derivative Financial Instruments Outstanding as of Period End

## Futures Contracts

				Unrealized	
				Appreciation	
Contracts			Notional		
Short	Issue	Expiration	Value	(Depreciation)	
(20)	5-Year U.S. Treasury Note	September 2016	\$ 2,440,313	\$	351
(29)	10-Year U.S. Treasury Note	September 2016	\$ 3,858,359		(3,840)
(10)	Long U.S. Treasury Bond	September 2016	\$ 1,744,375		(24,725)
(2)	Ultra U.S. Treasury Bond	September 2016	\$ 381,062		(14,631)
<b>Total</b>				\$	(42,845)

BLACKROCK MUNIHOLDINGS QUALITY FUND, INC.

JULY 31, 2016

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## Schedule of Investments (continued)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

**Fair Value Hierarchy as of Period End**

Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a fair value hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets or liabilities that the Fund has the ability to access

Level 2 other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or 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 circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments and derivative financial instruments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. The significant unobservable inputs used by the Global Valuation Committee in determining the price for Fair Valued Investments are typically categorized as Level 3.

Changes in valuation techniques may result in transfers into or out of an assigned level within the hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investments and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and derivative financial instruments, refer to the Fund's most recent financial statements as contained in its annual report.

The following tables summarize the Fund's investments and derivative financial instruments categorized in the disclosure hierarchy:

	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
<b>Investments:</b>				
Long-Term Investments <sup>1</sup>		\$ 309,907,857		\$ 309,907,857
<b>Derivative Financial Instruments<sup>2</sup></b>				
<b>Assets:</b>				
Interest rate contracts	\$ 351			\$ 351
<b>Liabilities:</b>				
Interest rate contracts	(43,196)			(43,196)
<b>Total</b>	\$ (42,845)			\$ (42,845)

<sup>1</sup> See above Schedule of Investments for values in each state.

<sup>2</sup> Derivative financial instruments are futures contracts, which are valued at the unrealized appreciation (depreciation) on the instrument.



## Schedule of Investments (concluded)

BlackRock MuniHoldings Quality Fund, Inc. (MUS)

The Fund may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of period end, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
Cash pledged for futures contracts	\$ 104,150			\$ 104,150
<b>Liabilities:</b>				
Bank overdraft		\$ (107,366)		(107,366)
TOB Trust Certificates		(24,427,093)		(24,427,093)
VMTP Shares at Liquidation Value		(87,000,000)		(87,000,000)
<b>Total</b>	\$ 104,150	\$ (111,534,459)		\$ (111,430,309)

During the period ended July 31, 2016, there were no transfers between levels.

BLACKROCK MUNIHOLDINGS QUALITY FUND, INC.

JULY 31, 2016

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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 13a-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 Quality Fund, Inc.

By: /s/ John M. Perlowski  
John M. Perlowski  
Chief Executive Officer (principal executive officer) of  
BlackRock MuniHoldings Quality Fund, Inc.

Date: September 21, 2016

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/ John M. Perlowski  
John M. Perlowski  
Chief Executive Officer (principal executive officer) of  
BlackRock MuniHoldings Quality Fund, Inc.

Date: September 21, 2016

By: /s/ Neal J. Andrews  
Neal J. Andrews  
Chief Financial Officer (principal financial officer) of  
BlackRock MuniHoldings Quality Fund, Inc.

Date: September 21, 2016