

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY FUND, INC.

Form N-Q

June 27, 2011

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 811-08573

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

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

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

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

Date of fiscal year end: 07/31/2011

Date of reporting period: 04/30/2011

Item 1 Schedule of Investments

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments April 30, 2011 (Unaudited)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
California — 116.2%		
Corporate — 0.5%		
City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series A, 5.88%, 2/15/34	\$ 2,435	\$ 2,535,760
County/City/Special District/School District — 48.2%		
Alameda County Joint Powers Authority, Refunding RB, Lease (AGM), 5.00%, 12/01/34	13,180	12,736,625
Bonita Unified School District California, GO, Election of 2004, Series B (NPFGC), 5.00%, 8/01/29	8,350	8,453,206
Central Unified School District, GO, Election of 2008, Series A (AGC), 5.63%, 8/01/33	2,600	2,641,782
City of Garden Grove California, COP, Series A, Financing Project (AMBAC), 5.50%, 3/01/26	4,040	4,166,008
City of Lodi California, COP, Refunding, Series A (AGM), 5.00%, 10/01/32	2,080	2,042,352
City of Redding California, COP, Refunding, Series A (AGM), 5.00%, 6/01/30	5,735	5,692,905
Colton Joint Unified School District, GO, Series A (NPFGC), 5.38%, 8/01/26	2,500	2,541,150
Corona Department of Water & Power, COP (NPFGC), 5.00%, 9/01/29	5,910	5,610,186
County of Kern California, COP, Capital Improvements Projects, Series A (AGC), 6.00%, 8/01/35	3,500	3,715,495
Covina-Valley Unified School District California, GO, Refunding, Series A (AGM), 5.50%, 8/01/26	2,395	2,496,907
Culver City Redevelopment Finance		

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Authority California, Tax Allocation Bonds, Refunding, Series A (AGM), 5.60%, 11/01/25	3,750	3,796,387
Fullerton Joint Union High School District California, GO, Election of 2002, Series B (NPFGC), 5.00%, 8/01/29	6,685	6,779,058
Grossmont Healthcare District, GO, Election of 2006, Series B, 6.13%, 7/15/40	2,000	2,102,060
Jurupa Public Financing Authority, RB, Superior Lien, Series A (AGM): 5.00%, 9/01/30	4,000	3,850,960

Municipal Bonds	Par (000)	Value
California (continued)		
County/City/Special District/School District (continued)		
Jurupa Public Financing Authority, RB, Superior Lien, Series A (AGM) (concluded): 5.00%, 9/01/33	\$ 2,000	\$ 1,862,420
5.00%, 9/01/39	4,230	3,783,185
Los Angeles Community Redevelopment Agency California, RB, Bunker Hill Project, Series A (AGM), 5.00%, 12/01/27	10,000	10,176,900
Los Angeles County Metropolitan Transportation Authority, Refunding RB, Proposition A, First Tier, Senior Series A (AMBAC), 5.00%, 7/01/35	9,000	9,059,940
Los Gatos Union School District California, GO, Election of 2001, Series B (AGM), 5.00%, 8/01/30	2,735	2,780,866
Los Rios Community College District, GO, Election of 2008, Series A, 5.00%, 8/01/35	11,000	10,683,090
Marin Community College District, GO, Election of 2004, Series A (NPFGC), 5.00%, 8/01/28	5,760	5,807,866

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Orange County Sanitation District, COP, Series A, 5.00%, 2/01/35	2,500	2,525,425
Oxnard Union High School District, GO, Refunding, Election of 2004, Series A (AGM), 5.00%, 8/01/35	10,000	9,631,900
Peralta Community College District, GO, Election of 2000, Series D (AGM), 5.00%, 8/01/35	15,490	14,596,537
Port of Oakland, Refunding RB, Series M, AMT (NPFGC), 5.38%, 11/01/27	24,465	23,121,627
Redlands Unified School District California, GO, Election of 2008 (AGM), 5.25%, 7/01/33	5,000	5,020,350
Redwoods Community College District, GO, Election of 2004 (NPFGC), 5.00%, 8/01/31	4,630	4,548,651
Riverside Unified School District California, GO, Election of 2001, Series B (NPFGC), 5.00%, 8/01/30	10,735	10,694,744
Saddleback Valley Unified School District California, GO (AGM), 5.00%, 8/01/29	4,115	4,131,830

Portfolio Abbreviations

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 following list:

AGC	Assured Guaranty Corp.	CAB	Capital Appreciation Bonds
AGM	Assured Guaranty Municipal Corp.	COP	Certificates of Participation
AMBAC	American Municipal Bond Assurance Corp.	GO	General Obligation Bonds
AMT	Alternative Minimum Tax (subject to)	NPFGC	National Public Finance Guarantee Corp.
BHAC	Berkshire Hathaway Assurance Corp.	RB	Revenue Bonds

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY FUND, INC.

APRIL 30, 2011

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BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments(continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
California (continued)		
County/City/Special District/School		
District (concluded)		
San Bernardino Community College		
District, GO, Election of 2002, Series A, 6.25%, 8/01/33	\$ 310	\$ 339,425
San Diego Community College District		
California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	7,000	7,020,090
San Diego Regional Building Authority, RB, County Operations Center & Annex, Series A, 5.50%, 2/01/29	830	863,374
San Francisco Community College		
District California, GO, Election of 2001, Series C (AGM), 5.00%, 6/15/31	4,195	4,207,921
San Jose Evergreen Community College		
District California, GO, Refunding, CAB, Election of 2004, Series A (NPFGC), 5.17%, 9/01/24 (a)	10,410	4,906,129
San Jose Financing Authority, RB, Convention Center Expansion & Renovation Project: 5.75%, 5/01/36	2,560	2,565,504
5.75%, 5/01/42	4,500	4,500,000
San Mateo County Transportation		
District California, Refunding RB, Series A (NPFGC), 5.00%, 6/01/29	5,650	5,752,095
Santa Clara Redevelopment Agency		
California, Tax Allocation Bonds, Bayshore North Project, Series A (AMBAC), 5.50%, 6/01/23	10,000	10,003,100
Snowline Joint Unified School District, COP, Refunding, Refining Project		

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(AGC), 5.75%, 9/01/38	5,635	5,955,293
Vista Unified School District California, GO, Series A (AGM), 5.25%, 8/01/25	10,000	10,265,900
Walnut Valley Unified School District California, GO, Election of 2007, Measure S, Series A (AGM), 5.00%, 2/01/33	2,000	1,958,300
Walnut Valley Unified School District, GO, Election of 2007, Measure S, Series A (AGM), 5.00%, 8/01/30	1,000	990,170
West Contra Costa Unified School District California, GO (AGM): Election of 2002, Series B, 5.00%, 8/01/32	6,690	6,672,138
Election of 2005, Series A, 5.00%, 8/01/26	2,595	2,650,611
West Contra Costa Unified School District, GO, Election of 2005, Series A (AGM), 5.00%, 8/01/35	12,000	11,622,120
Westminster Redevelopment Agency California, Tax Allocation Bonds, Subordinate, Commercial Redevelopment Project No. 1 (AGC), 6.25%, 11/01/39	4,300	4,680,163
		270,002,745

Education — 11.5%

Anaheim City School District California, GO, Election of 2010 (AGM), 6.25%, 8/01/40	3,750	3,952,800
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	Par	Value
Municipal Bonds	(000)	
California (continued)		
Education (concluded)		
California State Public Works Board, RB, University of California, Institute Project, Series C (AMBAC), 5.00%, 4/01/30	\$ 5,025	\$ 4,952,288
California State University, Refunding RB, Systemwide, Series C (NPFGC),		

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5.00%, 11/01/35	10,000	9,143,200
Gavilan Joint Community College District, GO, Election of 2004, Series D (b):		
5.50%, 8/01/31	2,170	2,245,473
5.75%, 8/01/35	7,150	7,372,865
Riverside Community College District, GO, Election of 2004, Series C (AGM),		
5.00%, 8/01/32	8,750	8,659,000
San Diego Community College District, GO, Election of 2006 (AGM), 5.00%,		
8/01/30	8,685	8,721,390
University of California, RB: Limited Project, Series D (AGM),		
5.00%, 5/15/37	5,950	5,772,869
Series L, 5.00%, 5/15/36	2,995	2,915,662
University of California, Refunding RB, General, Series A (AMBAC), 5.00%,		
5/15/27	10,500	10,617,600
		64,353,147
 Health — 5.2%		
ABAG Finance Authority for Nonprofit Corps, Refunding RB, Sharp Healthcare:		
6.25%, 8/01/39	5,000	4,986,250
Series A, 6.00%, 8/01/30	2,250	2,229,480
California Health Facilities Financing Authority, Refunding RB: Catholic Healthcare West, Series A,		
6.00%, 7/01/34	3,700	3,732,893
Sutter Health, Series B, 6.00%, 8/15/42	7,155	7,255,957
California Statewide Communities Development Authority, RB, Health Facility, Memorial Health Services, Series A, 6.00%, 10/01/23		
	4,915	5,045,444
California Statewide Communities Development Authority, Refunding RB, Kaiser Permanente, Series A (BHAC),		
5.00%, 4/01/31	4,400	4,312,836
City of Newport Beach California, RB, Hoag Memorial Hospital Presbyterian,		

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6.00%, 12/01/40	1,820	1,868,667
		29,431,527

State — 2.0%

California Community College Financing

Authority, RB, Grossmont-Palomar-

Shasta, Series A (NPFGC), 5.63%,

4/01/26

2,180

2,188,916

California State Public Works Board, RB,

Department of Education, Riverside

Campus Project, Series B, 6.50%,

4/01/34

3,670

3,819,296

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APRIL 30, 2011

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
California (continued)		
State (concluded)		
California State University, Refunding RB, Systemwide, Series C (NPFGC), 5.00%, 11/01/28	\$ 5,000	\$ 4,976,900
		10,985,112
Transportation — 17.2%		
City of Fresno California, RB, Series B, AMT (AGM), 5.50%, 7/01/20	4,455	4,557,866
City of San Jose California, RB, Series D (NPFGC), 5.00%, 3/01/28	7,500	7,250,850
County of Orange California, RB, Series B, 5.75%, 7/01/34	6,345	6,652,859
County of Sacramento California, RB, Senior Series B: 5.75%, 7/01/39	2,650	2,671,412
AMT (AGM), 5.75%, 7/01/28	13,170	13,661,768
AMT (AGM), 5.25%, 7/01/33	19,525	18,829,715
Los Angeles Harbor Department, RB, Series B, 5.25%, 8/01/34	5,530	5,577,447
Port of Oakland, RB, Series K, AMT (NPFGC), 5.75%, 11/01/29	19,660	19,200,743
San Francisco City & County Airports Commission, RB, Series E, 6.00%, 5/01/39	9,650	10,111,656
San Francisco City & County Airports Commission, Refunding RB, Second Series 34E, AMT (AGM), 5.75%, 5/01/24	5,000	5,275,800
San Joaquin County Transportation Authority, RB, Limited Tax, Measure K, Series A, 6.00%, 3/01/36	2,400	2,531,088
		96,321,204
Utilities — 31.6%		

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City of Escondido California, COP, Refunding, Series A (NPFGC), 5.75%, 9/01/24	465	471,017
City of Glendale California, RB (AGC), 5.00%, 2/01/31	5,030	5,064,003
City of Los Angeles California, Refunding RB, Sub-Series A: 5.00%, 6/01/28	2,000	2,064,800
5.00%, 6/01/32	3,000	3,028,230
City of Santa Clara California, RB, Sub- Series A (NPFGC), 5.00%, 7/01/28	6,050	6,056,957
Dublin-San Ramon Services District, Refunding RB, 6.00%, 8/01/41	4,000	4,128,920
East Bay Municipal Utility District, Refunding RB, Sub-Series A (AMBAC), 5.00%, 6/01/33	6,545	6,675,442
East Valley Water District Financing Authority, Refunding RB, 5.00%, 10/01/40	4,070	3,930,033
Eastern Municipal Water District, COP, Series H, 5.00%, 7/01/33	2,500	2,447,350
Los Angeles County Sanitation Districts Financing Authority, Refunding RB, Capital Project 14 (BHAC), 5.00%, 10/01/34	7,915	7,927,110
Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC), 5.00%, 10/01/33	9,000	9,069,030

	Par (000)	Value
Municipal Bonds		
California (concluded)		
Utilities (concluded)		
Oxnard Financing Authority, RB (NPFGC): Project, 5.00%, 6/01/31	\$ 10,000	\$ 9,679,400
Redwood Trunk Sewer & Headworks, Series A, 5.25%, 6/01/34	13,000	13,036,010
Sacramento City Financing Authority California, Refunding RB (NPFGC),		

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5.00%, 12/01/29	8,775	8,536,495
Sacramento Municipal Utility District, RB (NPFGC):		
Cosumnes Project, 5.13%, 7/01/29	36,760	36,782,056
Series R, 5.00%, 8/15/33	22,150	21,201,315
San Diego Public Facilities Financing Authority, Refunding RB, Senior		
Series A, 5.25%, 5/15/34	1,000	1,006,490
San Francisco City & County Public Utilities Commission, RB:		
Series A (NPFGC), 5.00%, 11/01/32	15,000	15,051,600
Series B, 5.00%, 11/01/30	14,000	14,520,240
Turlock Public Financing Authority California, RB, Series A (NPFGC), 5.00%, 9/15/33	6,655	6,645,750
		177,322,248
Total Municipal Bonds – 116.2%		650,951,743
Municipal Bonds Transferred to Tender		
Option Bond Trusts (c)		
California — 56.3%		
Corporate — 7.3%		
San Francisco Bay Area Rapid Transit District, Refunding RB, Series A (NPFGC), 5.00%, 7/01/30	23,100	23,559,921
University of California, RB, Limited Project, Series B (AGM), 5.00%, 5/15/33	17,397	17,190,095
		40,750,016
County/City/Special District/School District — 22.3%		
Contra Costa Community College District California, GO, Election of 2002 (NPFGC), 5.00%, 8/01/28	7,800	7,874,022
Desert Community College District California, GO, Series C (AGM), 5.00%, 8/01/37	16,530	15,897,893
Los Angeles Community College District California, GO: Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	6,647	6,578,300
Election of 2003, Series E (AGM), 5.00%, 8/01/31	11,216	11,215,194

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Election of 2008, Series A, 6.00%,

8/01/33	9,596	10,358,510
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Ohlone Community College District, GO,

Ohlone, Series B (AGM), 5.00%,

8/01/30	16,518	16,567,131
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BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY FUND, INC.

APRIL 30, 2011

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BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

Municipal Bonds Transferred to Tender	Par	Value
Option Bond Trusts (c)	(000)	
California (continued)		
County/City/Special District/School		
District (concluded)		
Poway Unified School District, GO, Election of 2002, Improvement District 02, Series 1-B (AGM), 5.00%, 8/01/30	\$ 10,000	\$ 9,962,500
San Bernardino Community College District California, GO, Election of 2002, Series C (AGM), 5.00%, 8/01/31	17,770	17,348,496
San Diego Community College District California, GO, Election of 2002 (AGM), 5.00%, 5/01/30	12,549	12,584,931
San Francisco Bay Area Transit Financing Authority, Refunding RB, Series A (NPFGC), 5.00%, 7/01/34	2,499	2,517,834
San Jose Financing Authority, Refunding RB, Civic Center Project, Series B (AMBAC), 5.00%, 6/01/32	14,800	14,203,264
		125,108,075
Education — 6.8%		
Chaffey Community College District, GO, Election of 2002, Series B (NPFGC), 5.00%, 6/01/30	9,905	9,926,316
Riverside Community College District, GO, Election of 2004, Series C (NPFGC), 5.00%, 8/01/32	8,910	8,749,086
University of California, RB: Limited Project, Series D (AGM), 5.00%, 5/15/41	8,000	7,710,800
Series O, 5.75%, 5/15/34	11,190	11,907,615
		38,293,817
Utilities — 18.1%		

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City of Napa California, RB (AMBAC), 5.00%, 5/01/35	9,100	9,024,561
East Bay Municipal Utility District, RB, Sub-Series A (NPFGC), 5.00%, 6/01/35	12,070	12,002,529
East Bay Municipal Utility District, Refunding RB, Sub-Series A (AMBAC), 5.00%, 6/01/37	14,510	14,630,578
Los Angeles Department of Water & Power, RB (AGM): Power System, Sub-Series A-1, 5.00%, 7/01/31	4,993	5,037,058
System, Sub-Series A-2, 5.00%, 7/01/35	7,500	7,502,850
Metropolitan Water District of Southern California, RB, Series A (AGM), 5.00%, 7/01/35	12,870	12,965,366

Municipal Bonds Transferred to Tender	Par	Value
Option Bond Trusts (c)	(000)	
California (concluded)		
Utilities (concluded)		
Rancho Water District Financing Authority, Refunding RB, Series A (AGM), 5.00%, 8/01/34	\$ 5,008	\$ 4,967,014
Sacramento Regional County Sanitation District, RB, Sacramento Regional County Sanitation (NPFGC), 5.00%, 12/01/36	4,500	4,501,800
San Diego County Water Authority, COP, Refunding: Series 2002-A (NPFGC), 5.00%, 5/01/32	10,000	10,011,300
Series 2008-A (AGM), 5.00%, 5/01/33	16,740	16,759,586
San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/31	4,000	4,017,280
		101,419,922
Transportation — 1.8%		
San Mateo County Transportation		

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Authority, Refunding RB, Series A (NPFGC), 5.00%, 6/01/32	10,000	10,005,000
Total Municipal Bonds Transferred to Tender Option Bond Trusts – 56.3%		315,576,830
Total Long-Term Investments (Cost – \$983,515,043) – 172.5%		966,528,573
Short-Term Securities	Shares	
BIF California Municipal Money Fund, 0.04% (d)(e)	13,523,765	13,523,765
Total Short-Term Securities (Cost – \$13,523,765) – 2.4%		13,523,765
Total Investments (Cost – \$997,038,808*) – 174.9%		980,052,338
Other Assets Less Liabilities – 0.6%		3,494,715
Liability for Trust Certificates, Including Interest Expense and Fees Payable – (30.2)%		(169,106,377)
Preferred Shares, at Redemption Value – (45.3)%		(254,016,240)
Net Assets Applicable to Common Shares – 100.0%		\$ 560,424,436

* The cost and unrealized appreciation (depreciation) of investments as of April 30, 2011, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 827,795,993
Gross unrealized appreciation	\$ 6,241,922
Gross unrealized depreciation	(22,928,733)
Net unrealized depreciation	\$ (16,686,811)

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APRIL 30, 2011

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments (continued)

(a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.

(b) When-issued security. Unsettled when-issued transactions were as follows:

Counterparty	Value	Unrealized Appreciation
Piper Jaffray	\$ 9,618,338	\$ 4,823

(c) 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.

(d) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares Held at July 31, 2010	Net Activity	Shares Held at April 30, 2011	Income
Affiliate				
BIF California Municipal Money Fund	71,270,966	(57,747,201)	13,523,765	\$4,770

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

•For Fund compliance purposes, the Fund's sector classifications refer to any one or more of the sector sub-classifications used by one or more widely recognized market indexes or ratings group indexes, and/or as defined by Fund management. This definition may not apply for purposes of this report, which may combine sector sub-classifications for reporting ease.

• Financial futures contracts sold as of April 30, 2011 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
200	10-Year U.S. Treasury Note	Chicago Board of Trade	June 2011	\$ 23,702,745	\$ (525,380)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

Schedule of Investments (concluded)

•Fair Value Measurements - Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are summarized in three broad level for financial reporting purposes as follows:

•Level 1 — price quotations in active markets/exchanges for identical assets and liabilities

•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 inputs or methodologies 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 derivative financial instruments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

The following tables summarize the inputs used as of April 30, 2011 in determining the fair valuation of the Fund's investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term				
Investments ¹		—	\$966,528,573	\$ 966,528,573
Short-Term				
Securities	\$ 13,523,765		—	13,523,765
Total	\$ 13,523,765	\$966,528,573	—	\$ 980,052,338

¹ See above Schedule of Investments for values in each sector.

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Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments ²				
Liabilities:				
Interest rate contracts	\$ (525,380)	---	---	\$ (525,380)

²Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

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APRIL 30, 2011

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 California Quality Fund, Inc.

By: /S/ John M. Perlowski

John M. Perlowski

Chief Executive Officer of

BlackRock MuniHoldings California Quality Fund, Inc.

Date: June 24, 2011

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 California Quality Fund, Inc.

Date: June 24, 2011

By: /S/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniHoldings California Quality Fund, Inc.

Date: June 24, 2011