

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY FUND, INC.

Form N-Q

June 24, 2013

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: 07/31/2013

Date of reporting period: 04/30/2013

Item 1 Schedule of Investments

Schedule of Investments April 30, 2013 (Unaudited)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| California 103.5% | | |
| Corporate 0.4% | | |
| City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series A, 5.88%, 2/15/34 | \$ 2,435 | \$ 2,929,768 |
| County/City/Special District/School District 24.4% | | |
| Centinela Valley Union High School District, GO, Election of 2010, Series A, 5.75%, 8/01/41 | 9,000 | 10,731,690 |
| Chabot-Las Positas Community College District, GO, CAB, Series C (AMBAC)(a): 5.04%, 8/01/36 | 14,700 | 4,617,564 |
| 5.06%, 8/01/37 | 11,980 | 3,568,962 |
| Chaffey Joint Union High School District, GO, Election 2012, Series A, 5.00%, 8/01/37 | 6,420 | 7,508,704 |
| City of Garden Grove California, COP, Series A, Financing Project (AMBAC), 5.50%, 3/01/26 | 4,040 | 4,075,754 |
| County of Kern California, COP, Capital Improvements Projects, Series A (AGC), 6.00%, 8/01/35 | 3,500 | 4,167,065 |
| Culver City Redevelopment Finance Authority California, Tax Allocation Bonds, Refunding, Series A (AGM), 5.60%, 11/01/25 | 3,750 | 3,766,087 |
| El Camino Community College District, GO, Election of 2002, Series C, 5.00%, 8/01/37 | 5,375 | 6,237,687 |
| Emery Unified School District, GO, CAB, Election of 2010, Series D(a): 5.23%, 8/01/38 | 6,000 | 1,629,660 |
| 5.31%, 8/01/40 | 5,675 | 1,360,071 |
| Grossmont Healthcare District, GO, Election of 2006, Series B, 6.13%, 7/15/40 | 2,000 | 2,468,440 |
| Los Angeles Community College District California, GO, Election of 2003, Series F-1, 5.00%, 8/01/33 | 2,500 | 2,853,600 |
| Los Angeles Community Redevelopment Agency California, RB, Bunker Hill Project, Series A (AGM), 5.00%, 12/01/27 | 7,000 | 7,421,820 |
| Mount Diablo Unified School District, GO, Refunding, Election of 2002, Series C, 5.00%, 8/01/29(b) | 5,000 | 6,013,800 |
| Orange County Sanitation District, COP, Series A, 5.00%, 2/01/35 | 2,500 | 2,866,050 |
| Oxnard Union High School District, GO, Refunding, Election of 2004, Series A (AGM), 5.00%, 8/01/35 | 10,000 | 11,170,100 |
| Pajaro Valley Unified School District, GO, Refunding, Election 2012, Series A, 5.00%, 8/01/38 | 5,740 | 6,555,826 |
| Redlands Unified School District California, GO, Election of 2008 (AGM), 5.25%, 7/01/33 | 5,000 | 5,720,200 |
| Saddleback Valley Unified School District, GO, Refunding, 5.00%, 8/01/29(c) | 3,000 | 3,528,960 |
| San Bernardino Community College District, GO, Election of 2002, Series A, 6.25%, 8/01/18(d) | 310 | 395,709 |
| San Diego Regional Building Authority, RB, County Operations Center & Annex, Series A, 5.50%, 2/01/29 | 900 | 1,067,112 |
| San Jose Financing Authority, RB, Convention Center: 5.75%, 5/01/36 | 2,560 | 2,849,792 |
| 5.75%, 5/01/42 | 4,500 | 5,238,900 |
| San Jose Financing Authority, Refunding RB, Civic Center Project, Series B (AMBAC), 5.00%, 6/01/32 | 14,800 | 14,878,736 |
| Santa Maria Joint Union High School District, GO, Election 2004, 5.00%, 8/01/33 | 3,710 | 4,342,703 |

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| | | |
|---|--------|-------------|
| Snowline Joint Unified School District, COP, Refunding, Refining Project (AGC), 5.75%, 9/01/38 | 5,635 | 6,683,617 |
| Southwestern Community College District, GO, Election of 2008, Series C, 5.25%, 8/01/36 | 2,570 | 3,018,568 |
| Ventura County Community College District, GO, Election of 2002, Series C, 5.50%, 8/01/33 | 5,000 | 5,879,700 |
| West Contra Costa Unified School District California, GO (AGM): | | |
| Election of 2005, Series A, 5.00%, 8/01/35 | 10,000 | 10,587,600 |
| Election of 2010, Series A, 5.25%, 8/01/41 | 5,390 | 6,296,275 |
| Westminster Redevelopment Agency California, Tax Allocation Bonds, Subordinate, Commercial Redevelopment Project No. 1 (AGC), 6.25%, 11/01/39 | 4,300 | 5,135,447 |
| William S Hart Union High School District, GO, CAB, Election of 2008, Series C, 5.00%, 8/01/37(a) | 8,250 | 2,492,737 |
| | | 165,128,936 |

Education 8.6%

| | | |
|--|-------|-----------|
| California Municipal Finance Authority, RB, Emerson College, 6.00%, 1/01/42 | 2,500 | 3,036,725 |
|--|-------|-----------|

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY
FUND, INC.

APRIL 30, 2013

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Schedule of Investments (continued)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| California (continued) | | |
| Education (concluded) | | |
| Gavilan Joint Community College District, GO, Election of 2004, Series D: | | |
| 5.50%, 8/01/31 | \$ 2,170 | \$ 2,631,017 |
| 5.75%, 8/01/35 | 8,400 | 10,318,476 |
| Riverside Community College District, GO, Election of 2004, Series C (AGM), | | |
| 5.00%, 8/01/32 | 8,750 | 9,880,325 |
| San Diego Community College District, GO, Election of 2006 (AGM), | | |
| 5.00%, 8/01/30 | 8,000 | 9,185,520 |
| San Jose Evergreen Community College District, GO, Election of 2010, Series A, | | |
| 5.00%, 8/01/41 | 5,975 | 6,887,024 |
| University of California, RB, Series L, | | |
| 5.00%, 5/15/36 | 3,030 | 3,377,086 |
| University of California, Refunding RB: | | |
| General, Series A (AMBAC), 5.00%, 5/15/27 | 5,000 | 5,009,750 |
| Limited Project, Series G, 5.00%, 5/15/37 | 1,750 | 2,010,400 |
| Series AF, 5.00%, 5/15/36 | 5,000 | 5,875,650 |
| | | 58,211,973 |
| Health 16.9% | | |
| ABAG Finance Authority for Nonprofit Corps, Refunding RB, Sharp Healthcare: | | |
| 6.25%, 8/01/39 | 5,000 | 5,910,550 |
| Series A, 6.00%, 8/01/30 | 2,270 | 2,777,481 |
| California Health Facilities Financing Authority, RB: | | |
| Children s Hospital, Series A, 5.25%, 11/01/41 | 8,020 | 8,913,589 |
| Kaiser Permanente, Series A, 5.25%, 4/01/39 | 7,210 | 7,881,395 |
| Providence Health Services, Series B, 5.50%, 10/01/39 | 4,030 | 4,740,247 |
| Sutter Health, Series A, 5.25%, 11/15/46 | 10,000 | 11,097,200 |
| Sutter Health, Series B, 6.00%, 8/15/42 | 9,655 | 11,943,718 |
| California Health Facilities Financing Authority, Refunding RB: | | |
| Catholic Healthcare West, Series A, 6.00%, 7/01/34 | 3,700 | 4,442,997 |
| Stanford Hospital, Series A-3, 5.50%, 11/15/40 | 2,915 | 3,511,030 |
| California Statewide Communities Development Authority, RB, Kaiser Permanente: | | |
| Series A, 5.00%, 4/01/42 | 37,565 | 41,697,150 |
| Series B, 5.25%, 3/01/45 | 6,260 | 6,820,208 |
| City of Newport Beach California, Refunding RB, Hoag Memorial Hospital Presbyterian, | | |
| 6.00%, 12/01/40 | 3,820 | 4,720,794 |
| | | 114,456,359 |
| State 9.1% | | |
| California State Public Works Board, RB, Department of Education, Riverside Campus Project, Series B, | | |
| 6.50%, 4/01/34 | 3,670 | 4,505,292 |
| California State Public Works Board, RB, California State Prisons, Series C, | | |
| 5.75%, 10/01/31 | 1,205 | 1,418,502 |
| State of California, GO: | | |
| 6.00%, 3/01/33 | 6,005 | 7,390,053 |
| 6.00%, 4/01/38 | 28,265 | 33,917,152 |
| University of California, RB, Limited Project, Series D (NPFGC), | | |
| 5.00%, 5/15/41 | 13,000 | 14,227,070 |
| | | 61,458,069 |

Transportation 16.5%

| | | |
|---|--------|------------|
| Bay Area Toll Authority, RB, Series C-1, 1.12%, 4/01/45(e) | 4,400 | 4,400,308 |
| City of Fresno California, ARB, Series B, AMT (AGM), 5.50%, 7/01/20 | 4,455 | 4,561,831 |
| City of Los Angeles Department of Airports, Refunding RB, Series A, 5.25%, 5/15/39 | 2,335 | 2,710,538 |
| City of San Jose California, Refunding ARB, Series A-1, AMT: 5.25%, 3/01/23 | 2,985 | 3,514,688 |
| 6.25%, 3/01/34 | 1,400 | 1,675,576 |
| County of Orange California, ARB, Series B, 5.75%, 7/01/34 | 6,345 | 7,319,655 |
| County of Sacramento California, ARB: Senior Series A (AGC), 5.50%, 7/01/41 | 8,190 | 9,490,654 |
| Senior Series B, 5.75%, 7/01/39 | 2,650 | 3,101,613 |
| Senior Series B AMT (AGM), 5.75%, 7/01/28 | 13,275 | 15,554,849 |
| Senior Series B AMT (AGM), 5.25%, 7/01/33 | 19,530 | 22,185,103 |
| Los Angeles Department of Airports, RB, Los Angeles International Airport, Senior Series D, 5.25%, 5/15/29 | 2,590 | 3,075,832 |
| Los Angeles Harbor Department, RB, Series B, 5.25%, 8/01/34 | 5,530 | 6,495,980 |
| San Diego County Regional Airport Authority, RB, Senior, Series B, AMT, 5.00%, 7/01/38 | 5,500 | 6,086,355 |

Schedule of Investments (continued)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|---------------|
| Municipal Bonds | | |
| California (continued) | | |
| Transportation (concluded) | | |
| San Francisco City & County Airports Commission, RB, Series E, 6.00%, 5/01/39 | \$ 9,650 | \$ 11,625,259 |
| San Francisco City & County Airports Commission, Refunding RB, AMT: Second Series 34E (AGM), 5.75%, 5/01/24 | 5,000 | 5,861,800 |
| Second Series A, 5.00%, 5/01/32 | 1,415 | 1,584,659 |
| San Joaquin County Transportation Authority, Refunding RB, Limited Tax, Measure K, Series A, 6.00%, 3/01/36 | 2,400 | 2,965,440 |
| | | 112,210,140 |
| Utilities 27.6% | | |
| Anaheim Public Financing Authority, RB, Electric System Distribution Facilities, Series A, 5.38%, 10/01/36 | 2,200 | 2,615,910 |
| City of Los Angeles California Wastewater System, Refunding RB: Series A (NPFGC), 5.00%, 6/01/34 | 3,000 | 3,233,940 |
| Sub-Series A, 5.00%, 6/01/28 | 2,000 | 2,321,400 |
| Sub-Series A, 5.00%, 6/01/32 | 6,000 | 6,934,680 |
| City of Sacramento California, RB, Water Revenue Bonds: 5.00%, 9/01/38 | 2,000 | 2,329,940 |
| 5.00%, 9/01/42 | 2,000 | 2,314,620 |
| Cucamonga Valley Water District Financing Authority, RB, Water Utility: 5.00%, 9/01/37 | 7,705 | 8,951,361 |
| 5.00%, 9/01/42 | 5,500 | 6,355,745 |
| Dublin-San Ramon Services District, Refunding RB, 6.00%, 8/01/41 | 4,000 | 4,909,440 |
| East Bay Municipal Utility District, RB, Series A (NPFGC), 5.00%, 6/01/32 | 11,935 | 13,492,517 |
| East Bay Municipal Utility District, Refunding RB, Sub-Series A: (AGM) (NPFGC), 5.00%, 6/01/37 | 11,190 | 12,659,807 |
| (AMBAC), 5.00%, 6/01/33 | 5,000 | 5,694,950 |
| Eastern Municipal Water District, COP, Series H, 5.00%, 7/01/33 | 2,500 | 2,841,550 |
| Imperial Irrigation District, Refunding RB, System, 5.13%, 11/01/38 | 9,500 | 10,835,035 |
| Los Angeles Department of Water & Power, RB, Series A, 5.38%, 7/01/38 | 9,000 | 10,494,090 |
| Los Angeles Department of Water & Power, Refunding RB, System, Series A, 5.25%, 7/01/39 | 16,000 | 18,592,160 |
| Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC), 5.00%, 10/01/13(d) | 8,605 | 8,778,047 |
| Sacramento Municipal Utility District, RB: Series A, 5.00%, 8/15/37(c) | 3,630 | 4,195,481 |
| Series R (NPFGC), 5.00%, 8/15/33 | 5,360 | 5,434,558 |
| San Diego County Water Authority, COP, Refunding, Series A: (AGM), 5.00%, 5/01/33(c) | 5,010 | 5,667,813 |
| (NPFGC), 5.00%, 5/01/32 | 3,495 | 3,495,454 |
| San Diego County Water Authority, Refunding RB, Series A, 5.00%, 5/01/31 | 5,000 | 5,981,350 |
| San Diego Public Facilities Financing Authority, Refunding RB, Senior Series A: 5.25%, 5/15/34 | 1,000 | 1,172,270 |
| 5.25%, 5/15/39 | 10,000 | 11,608,300 |
| San Francisco City & County Public Utilities Commission, RB: | | |

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| | | |
|---|--------|-------------|
| Local Water Main Sub-Series C, 5.00%, 11/01/41 | 5,000 | 5,757,750 |
| Series B, 5.00%, 11/01/30 | 10,000 | 11,707,700 |
| San Juan Water District, Refunding RB, San Juan & Citrus Heights, 5.25%, 2/01/33 | 7,325 | 8,609,805 |
| | | 186,985,673 |
| Total Municipal Bonds 103.5% | | 701,380,918 |

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (b)

California 62.4%

County/City/Special District/School District 33.5%

| | | |
|---|--------|------------|
| Alameda County Joint Powers Authority, Refunding LRB, Lease (AGM), 5.00%, 12/01/34 | 13,180 | 14,706,508 |
| Desert Community College District California, GO, Series C (AGM), 5.00%, 8/01/37 | 16,530 | 17,936,372 |
| Foothill-De Anza Community College District, GO, Series C, 5.00%, 8/01/40 | 37,839 | 43,452,901 |
| Los Angeles Community College District California, GO: Election of 2001, Series A (NPFGC), 5.00%, 8/01/32 | 6,647 | 7,488,751 |
| Election of 2001, Series E-1, 5.00%, 8/01/33 | 11,770 | 13,434,749 |
| Election of 2003, Series E (AGM), 5.00%, 8/01/31 | 11,216 | 12,443,223 |
| Election of 2003, Series F-1, 5.00%, 8/01/33 | 10,000 | 11,414,400 |
| Los Angeles Community College District California, GO, Refunding, Election of 2008, Series A, 6.00%, 8/01/33 | 9,596 | 11,879,054 |

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY
FUND, INC.

APRIL 30, 2013

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Schedule of Investments (continued)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (b) | | |
| California (continued) | | |
| County/City/Special District/School District (concluded) | | |
| Los Angeles County Metropolitan Transportation Authority, Refunding RB, Proposition A, First Tier, Senior Series A (AMBAC), 5.00%, 7/01/35 | \$ 8,997 | \$ 9,716,976 |
| Los Angeles County Sanitation Districts Financing Authority, Refunding RB, Capital Project 14 (BHAC), 5.00%, 10/01/34 | 7,917 | 8,555,089 |
| Ohlone Community College District, GO, Series B (AGM), 5.00%, 8/01/15(d) | 16,518 | 18,233,669 |
| Poway Unified School District, GO, Election of 2002, Improvement District 02, Series 1-B (AGM), 5.00%, 8/01/30 | 10,000 | 10,743,500 |
| San Bernardino Community College District California, GO, Election of 2002, Series C (AGM), 5.00%, 8/01/31 | 17,770 | 19,552,864 |
| San Francisco Bay Area Rapid Transit District, Refunding RB, Series A (NPFGC): 5.00%, 7/01/30 | 23,100 | 24,922,359 |
| 5.00%, 7/01/34 | 2,499 | 2,696,484 |
| | | 227,176,899 |
| Education 12.4% | | |
| Chaffey Community College District, GO, Election of 2002, Series B (NPFGC), 5.00%, 6/01/15(d) | 9,905 | 10,610,055 |
| Los Rios Community College District, GO, Election of 2008, Series A, 5.00%, 8/01/35 | 11,000 | 12,477,630 |
| Mount Diablo California Unified School District, GO, Election of 2002 (NPFGC), 5.00%, 6/01/14(d) | 4,000 | 4,243,320 |
| Riverside Community College District, GO, Election of 2004, Series C (NPFGC), 5.00%, 8/01/32 | 8,910 | 10,060,994 |
| University of California, RB: Limited Project, Series D (AGM), 5.00%, 5/15/41 | 8,000 | 8,858,160 |
| Series O, 5.75%, 5/15/34 | 11,190 | 13,482,421 |
| University of California, Refunding RB, Limited Project, Series G, 5.00%, 5/15/37 | 21,391 | 24,573,805 |
| | | 84,306,385 |
| Transportation 2.4% | | |
| City of Los Angeles California Department of Airports, Refunding RB, Los Angeles International Airport, Senior Series A, 5.00%, 5/15/40 | 4,999 | 5,646,485 |
| San Mateo County Transportation Authority, Refunding RB, Series A (NPFGC), 5.00%, 6/01/32 | 10,000 | 10,711,100 |
| | | 16,357,585 |
| Utilities 14.1% | | |
| City of Napa California Water System, RB (AMBAC), 5.00%, 5/01/35 | 9,100 | 9,835,189 |
| East Bay Municipal Utility District, RB, Sub-Series A (NPFGC), 5.00%, 6/01/35 | 12,070 | 12,995,648 |
| East Bay Municipal Utility District, Refunding RB, Sub-Series A (AMBAC), | | |

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| | | |
|---|--------|------------|
| 5.00%, 6/01/37 | 14,510 | 16,495,838 |
| Los Angeles Department of Water & Power, RB, Sub-Series A-2 (AGM), | | |
| 5.00%, 7/01/35 | 7,500 | 8,332,800 |
| Metropolitan Water District of Southern California, RB, Series A (AGM), | | |
| 5.00%, 7/01/35 | 12,870 | 13,908,352 |
| Rancho Water District Financing Authority, Refunding RB, Series A (AGM), | | |
| 5.00%, 8/01/34 | 5,008 | 5,716,861 |
| Sacramento County Sanitation District Financing Authority, RB, Sacramento Regional County | | |
| Sanitation (NPFGC), | | |
| 5.00%, 12/01/36 | 4,500 | 4,967,325 |
| San Diego County Water Authority, COP, Series A (AGM), | | |
| 5.00%, 5/01/31 | 4,000 | 4,270,600 |
| San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), | | |
| 5.00%, 5/01/33 | 16,740 | 18,937,962 |

95,460,575

Total Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts 62.4% 423,301,444

Total Long-Term Investments
(Cost \$1,035,176,008) 165.9% 1,124,682,362

| Short-Term Securities | Shares | |
|--------------------------------------|---------|---------|
| BIF California Municipal Money Fund, | | |
| 0.00% (f)(g) | 413,372 | 413,372 |

Total Short-Term Securities
(Cost \$413,372) 0.1% 413,372

Schedule of Investments (continued)

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)
(Percentages shown are based on Net Assets)

| | Value |
|--|------------------|
| Total Investments (Cost \$1,035,589,380*) 166.0% | \$ 1,125,095,734 |
| Other Assets Less Liabilities 0.7% | 5,107,702 |
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (29.2)% | (198,265,824) |
| VMTP Shares, at Liquidation Value (37.5)% | (254,000,000) |
| Net Assets Applicable to Common Shares 100.0% | \$ 677,937,612 |

* As of April 30, 2013, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

| | |
|-------------------------------|----------------|
| Tax cost | \$ 837,699,124 |
| Gross unrealized appreciation | \$ 89,638,805 |
| Gross unrealized depreciation | (400,559) |
| Net unrealized appreciation | \$ 89,238,246 |

Notes to Schedule of Investments

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) Securities represent bonds transferred to a TOB in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (c) When-issued security. Unsettled when-issued transactions were as follows:

| Counterparty | Value | Unrealized Appreciation (Depreciation) |
|---------------------|--------------|--|
| Barclay's Plc | \$ 4,195,481 | \$ 36,845 |
| Citigroup, Inc. | \$ 5,667,813 | \$ (2,906) |
| Piper Jaffray & Co. | \$ 3,528,960 | \$ 18,420 |

- (d) 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.

- (e) Variable rate security. Rate shown is as of report date.

- (f)

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Investments in issuers considered to be an affiliate of the Fund during the period ended April 30, 2013, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| Affiliate | Shares Held at | Net Activity | Shares Held at | Income |
|-------------------------------------|------------------|--------------|-------------------|--------|
| | July 31, 2012 | | April 30, 2013 | |
| BIF California Municipal Money Fund | 19,427,466 | (19,014,094) | 413,372 | \$ 4 |

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

BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY
FUND, INC.

APRIL 30, 2013

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Schedule of Investments (continued)**BlackRock MuniHoldings California Quality Fund, Inc. (MUC)****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. |
| AGM | Assured Guaranty Municipal Corp. |
| AMBAC | American Municipal Bond Assurance Corp. |
| AMT | Alternative Minimum Tax (subject to) |
| ARB | Airport Revenue Bonds |
| BHAC | Berkshire Hathaway Assurance Corp. |
| CAB | Capital Appreciation Bonds |
| COP | Certificates of Participation |
| GO | General Obligation Bonds |
| LRB | Lease Revenue Bonds |
| NPFGC | National Public Finance Guarantee Corp. |
| RB | Revenue Bonds |

Financial futures contracts as of April 30, 2013 were as follows:

Contracts

| Sold | Issue | Exchange | Expiration | Notional Value | Unrealized Depreciation |
|-------------|--------------------------|------------------------|-------------------|-----------------------|--------------------------------|
| (400) | 10-Year US Treasury Note | Chicago Board of Trade | June 2013 | \$ 53,343,750 | \$ (809,949) |

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. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

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

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and 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 level in the fair value hierarchy within which the fair value measurement falls in its entirety is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value disclosure 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 investment and derivative financial instrument 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 and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

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BLACKROCK MUNIHOLDINGS CALIFORNIA QUALITY
FUND, INC.

APRIL 30, 2013

Schedule of Investments (concluded)**BlackRock MuniHoldings California Quality Fund, Inc. (MUC)**

The following tables summarize the Fund's investments and derivative financial instruments categorized in the disclosure hierarchy as of April 30, 2013:

| | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|------------|------------------|---------|------------------|
| Assets: | | | | |
| Investments: | | | | |
| Long-Term Investments ¹ | | \$ 1,124,682,362 | | \$ 1,124,682,362 |
| Short-Term Securities | \$ 413,372 | | | 413,372 |
| Total | \$ 413,372 | \$ 1,124,682,362 | | \$ 1,125,095,734 |

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

| | Level 1 | Level 2 | Level 3 | Total |
|---|---------|--------------|---------|--------------|
| Derivative Financial Instruments ² | | | | |
| Liabilities: | | | | |
| Interest rate contracts | | \$ (809,949) | | \$ (809,949) |

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

Certain of the Fund's assets and liabilities are held at carrying amount, which approximates fair value for financial reporting purposes.

As of April 30, 2013, such assets and liabilities are categorized within the disclosure hierarchy as follows:

| | Level 1 | Level 2 | Level 3 | Total |
|--|------------|------------------|---------|------------------|
| Assets: | | | | |
| Cash pledged for financial futures contracts | \$ 528,000 | | | \$ 528,000 |
| Liabilities: | | | | |
| TOB trust certificates | | \$ (198,158,364) | | (198,158,364) |
| VMTP shares | | (254,000,000) | | (254,000,000) |
| Total | \$ 528,000 | \$ (452,158,364) | | \$ (451,630,364) |

There were no transfers between levels during the period ended April 30, 2013.

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 (principal executive officer) of
BlackRock MuniHoldings California Quality Fund, Inc.

Date: June 24, 2013

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, 2013

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

Date: June 24, 2013