

BLACKROCK MUNIYIELD 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 811-06692

Name of Fund: BlackRock MuniYield California Quality Fund, Inc. (MCA)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniYield California 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: 07/31/2011

Date of reporting period: 04/30/2011

Item 1 – Schedule of Investments

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Schedule of Investments April 30, 2011 (Unaudited)

**BlackRock MuniYield California Quality Fund, Inc. (MCA)**  
 (Percentages shown are based on Net Assets)

| <b>Municipal Bonds</b>                                                                                                                | <b>Par<br/>(000)</b> | <b>Value</b>     |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|
| <b>California 97.9%</b>                                                                                                               |                      |                  |
| <b>Corporate 0.9%</b>                                                                                                                 |                      |                  |
| City of Chula Vista California, Refunding<br>RB, San Diego Gas & Electric,<br>Series A, 5.88%, 2/15/34                                | \$ 2,435             | \$ 2,535,760     |
| University of California, RB, Limited<br>Project, Series B (AGM), 5.00%,<br>5/15/33                                                   | 1,760                | 1,739,109        |
|                                                                                                                                       |                      | <u>4,274,869</u> |
| <b>County/City/Special District/School District 47.1%</b>                                                                             |                      |                  |
| Arcadia Unified School District<br>California, GO, Election of 2006,<br>Series A (AGM), 5.00%, 8/01/37                                | 7,925                | 7,720,931        |
| Bay Area Governments Association,<br>Refunding RB, California<br>Redevelopment Agency Pool, Series A<br>(AGM), 6.00%, 12/15/24        | 255                  | 256,352          |
| Brentwood Infrastructure Financing<br>Authority California, Special<br>Assessment Bonds, Refunding,<br>Series A (AGM), 5.20%, 9/02/29 | 3,930                | 3,944,855        |
| City & County of San Francisco<br>California, COP, Refunding, Series A,<br>5.00%, 10/01/28                                            | 5,895                | 5,921,174        |
| City of Riverside California, COP<br>(AMBAC), 5.00%, 9/01/28                                                                          | 3,000                | 2,776,620        |
| County of Kern California, COP, Capital<br>Improvements Projects, Series A<br>(AGC), 6.00%, 8/01/35                                   | 2,000                | 2,123,140        |
| Fairfield-Suisun Unified School District<br>California, GO, Election of 2002<br>(NPFGC), 5.50%, 8/01/28                               | 2,500                | 2,616,575        |
| Fremont Unified School District Alameda<br>County California, GO, Series A<br>(NPFGC), 5.50%, 8/01/26                                 | 10,755               | 11,205,850       |
| Fresno Joint Powers Financing Authority<br>California, RB, Series A (AGM), 5.75%,<br>6/01/26                                          | 3,295                | 3,296,680        |
| Glendora Unified School District<br>California, GO, Election of 2005,<br>Series A (NPFGC), 5.25%, 8/01/30                             | 2,730                | 2,774,854        |
| Grossmont Healthcare District, GO,<br>Election of 2006, Series B, 6.13%,<br>7/15/40                                                   | 2,000                | 2,102,060        |
| Lodi Unified School District California,<br>GO, Election of 2002 (AGM), 5.00%,<br>8/01/29                                             | 10,260               | 10,285,240       |

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| Municipal Bonds                                                                                                                  | Par<br>(000) | Value         |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| <b>California (continued)</b>                                                                                                    |              |               |
| <b>County/City/Special District/School District (continued)</b>                                                                  |              |               |
| 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%, 7/01/27                                                                                                                   | 5,240        | 5,429,059     |
| 5.00%, 7/01/35                                                                                                                   | 6,825        | 6,870,454     |
| Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39                             | 1,515        | 1,485,276     |
| Los Gatos Union School District California, GO, Election of 2001, Series C (NPFGC), 5.13%, 8/01/32                               | 1,075        | 1,104,541     |
| Los Rios Community College District, GO, Election of 2008, Series A, 5.00%, 8/01/35                                              | 11,000       | 10,683,090    |
| Murrieta Valley Unified School District Public Financing Authority, Special Tax Bonds, Refunding, Series A (AGC), 5.13%, 9/01/26 | 8,000        | 8,131,920     |
| Orange County Sanitation District, COP, Series A, 5.00%, 2/01/35                                                                 | 2,500        | 2,525,425     |
| Orange County Water District, COP, Refunding, 5.25%, 8/15/34                                                                     | 9,045        | 9,332,902     |
| Orchard School District California, GO, Election of 2001, Series A (AGC), 5.00%, 8/01/34                                         | 7,490        | 7,539,808     |
| Oxnard Union High School District California, GO, Refunding, Series A (NPFGC), 6.20%, 8/01/30                                    | 9,645        | 10,032,440    |
| Pittsburg Unified School District, GO, Election of 2006, Series B (AGM):                                                         |              |               |
| 5.50%, 8/01/34                                                                                                                   | 2,000        | 2,060,060     |
| 5.63%, 8/01/39                                                                                                                   | 4,500        | 4,652,415     |
| Port of Oakland, Refunding RB, Series M, AMT (NPFGC), 5.38%, 11/01/27                                                            | 16,930       | 16,000,374    |
| Redlands Unified School District California, GO, Election of 2008 (AGM), 5.25%, 7/01/33                                          | 5,000        | 5,020,350     |

**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:

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

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BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC.

APRIL 30, 2011

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## Schedule of Investments (continued)

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

| Municipal Bonds                                                                                                                                                     | Par<br>(000) | Value        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| <b>California (continued)</b>                                                                                                                                       |              |              |
| <b>County/City/Special District/School District (concluded)</b>                                                                                                     |              |              |
| Riverside Unified School District<br>California, GO, Series C (AGC), 5.00%,<br>8/01/32                                                                              | \$ 2,000     | \$ 1,943,740 |
| Sacramento Area Flood Control Agency,<br>Special Assessment Bonds,<br>Refunding, Consolidated, Capital<br>Assessment District, Series A<br>(NPFGC), 5.00%, 10/01/32 | 4,350        | 4,373,534    |
| San Bernardino City Unified School<br>District California, GO, Series A (AGM),<br>5.00%, 8/01/28                                                                    | 5,000        | 5,001,100    |
| San Diego Community College District<br>California, GO, Election of 2006<br>(AGM), 5.00%, 8/01/32                                                                   | 7,115        | 7,129,586    |
| San Diego County Water Authority, COP,<br>Refunding, Series 2008-A (AGM),<br>5.00%, 5/01/38                                                                         | 4,895        | 4,788,534    |
| San Jose Financing Authority, RB,<br>Convention Center Expansion &<br>Renovation Project:<br>5.75%, 5/01/36                                                         | 2,560        | 2,565,504    |
| 5.75%, 5/01/42                                                                                                                                                      | 4,500        | 4,500,000    |
| San Jose Redevelopment Agency<br>California, Tax Allocation Bonds,<br>Housing Set Aside Merged Area,<br>Series E, AMT (NPFGC), 5.85%,<br>8/01/27                    | 7,300        | 7,076,109    |
| San Juan Unified School District, GO,<br>Election of 2002 (AGM), 5.00%,<br>8/01/34                                                                                  | 6,475        | 6,199,877    |
| San Mateo County Transportation<br>District California, Refunding RB,<br>Series A (NPFGC), 5.00%, 6/01/29                                                           | 4,350        | 4,428,604    |
| Snowline Joint Unified School District,<br>COP, Refunding, Refining Project<br>(AGC), 5.75%, 9/01/38                                                                | 5,600        | 5,918,304    |
| South Tahoe Joint Powers Financing<br>Authority, RB, South Tahoe<br>Redevelopment Project Area No. 1,<br>Series A (AGM), 5.00%, 10/01/29                            | 1,645        | 1,596,752    |
| West Contra Costa Unified School<br>District California, GO, Election<br>of 2002, Series B (AGM), 5.00%,<br>8/01/32                                                 | 6,690        | 6,672,138    |

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|                                                                                                                                                           |       |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|
| Westminster Redevelopment Agency<br>California, Tax Allocation Bonds,<br>Subordinate, Commercial<br>Redevelopment Project No. 1 (AGC),<br>6.25%, 11/01/39 | 4,300 | 4,680,163   |
|                                                                                                                                                           |       | 222,943,290 |

**Education 11.2%**

|                                                                                                |        |            |
|------------------------------------------------------------------------------------------------|--------|------------|
| Anaheim City School District California,<br>GO, Election of 2010 (AGM), 6.25%,<br>8/01/40      | 3,750  | 3,952,800  |
| California State University, RB,<br>Systemwide, Series A (AGM), 5.00%,<br>11/01/39             | 4,860  | 4,389,698  |
| California State University, Refunding<br>RB, Systemwide, Series C (NPFGC),<br>5.00%, 11/01/35 | 20,000 | 18,286,400 |

| Municipal Bonds | Par<br>(000) | Value |
|-----------------|--------------|-------|
|-----------------|--------------|-------|

**California (continued)**

**Education (concluded)**

|                                                                                                       |          |              |
|-------------------------------------------------------------------------------------------------------|----------|--------------|
| Gavilan Joint Community College<br>District, GO, Election of 2004,<br>Series D (a):<br>5.50%, 8/01/31 | \$ 2,165 | \$ 2,240,299 |
| 5.75%, 8/01/35                                                                                        | 7,150    | 7,372,865    |
| Riverside Community College District,<br>GO, Election of 2004, Series C (AGM),<br>5.00%, 8/01/32      | 8,750    | 8,659,000    |
| University of California, RB, Limited<br>Project, Series D:<br>(AGM), 5.00%, 5/15/37                  | 2,775    | 2,692,388    |
| (NPFGC), 5.00%, 5/15/37                                                                               | 5,500    | 5,336,265    |
|                                                                                                       |          | 52,929,715   |

**Health 5.5%**

|                                                                                                                                           |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|
| ABAG Finance Authority for Nonprofit<br>Corps, Refunding RB, Sharp<br>Healthcare, Series A, 6.00%, 8/01/30                                | 2,250 | 2,229,480 |
| California Health Facilities Financing<br>Authority, Refunding RB:<br>Catholic Healthcare West, Series A,<br>6.00%, 7/01/34               | 2,130 | 2,148,935 |
| Catholic Healthcare West, Series A,<br>6.00%, 7/01/39                                                                                     | 5,500 | 5,531,185 |
| Sutter Health, Series B, 6.00%,<br>8/15/42                                                                                                | 5,000 | 5,070,550 |
| California Statewide Communities<br>Development Authority, RB, Health<br>Facility, Memorial Health Services,<br>Series A, 6.00%, 10/01/23 | 3,685 | 3,782,800 |
| California Statewide Communities<br>Development Authority, Refunding RB<br>(BHAC):                                                        |       |           |

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|                                                                                                  |       |           |
|--------------------------------------------------------------------------------------------------|-------|-----------|
| Catholic Healthcare West, Series D,<br>5.50%, 7/01/31                                            | 1,030 | 1,039,023 |
| Kaiser Permanente, Series A,<br>5.00%, 4/01/31                                                   | 4,400 | 4,312,836 |
| City of Newport Beach California, RB,<br>Hoag Memorial Hospital Presbyterian,<br>6.00%, 12/01/40 | 1,820 | 1,868,667 |

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25,983,476

**Housing 0.1%**

|                                                                                                                                                |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|
| California Rural Home Mortgage Finance<br>Authority, RB, AMT, Mortgage-Backed<br>Securities Program (Ginnie Mae):<br>Series A, 6.35%, 12/01/29 | 90  | 92,333  |
| Series B, 6.25%, 12/01/31                                                                                                                      | 65  | 65,686  |
| County of San Bernardino California,<br>Refunding RB, Home Mortgage-<br>Backed Securities, Series A-1, AMT<br>(Ginnie Mae), 6.25%, 12/01/31    | 110 | 114,061 |

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272,080

**State 1.9%**

|                                                                                                                               |       |           |
|-------------------------------------------------------------------------------------------------------------------------------|-------|-----------|
| California State Public Works Board, RB,<br>Department of Education, Riverside<br>Campus Project, Series B, 6.50%,<br>4/01/34 | 3,670 | 3,819,295 |
|-------------------------------------------------------------------------------------------------------------------------------|-------|-----------|

## Schedule of Investments (continued)

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

| Municipal Bonds                                                                                                      | Par<br>(000) | Value        |
|----------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| <b>California (continued)</b>                                                                                        |              |              |
| <b>State (concluded)</b>                                                                                             |              |              |
| California State University, Refunding<br>RB, Systemwide, Series C (NPFGC),<br>5.00%, 11/01/38                       | \$ 5,690     | \$ 5,154,742 |
|                                                                                                                      |              | 8,974,037    |
| <b>Transportation 14.1%</b>                                                                                          |              |              |
| City of San Jose California, RB, Series D<br>(NPFGC), 5.00%, 3/01/28                                                 | 4,575        | 4,423,019    |
| County of Orange California, RB,<br>Series B, 5.75%, 7/01/34                                                         | 5,000        | 5,242,600    |
| County of Sacramento California, RB:<br>Senior-Series B, AMT (AGM), 5.25%,<br>7/01/33                                | 7,500        | 7,232,925    |
| Subordinated and Passenger<br>Facility Charges/Grant, Series C<br>(AGC), 5.75%, 7/01/39                              | 5,455        | 5,521,551    |
| Los Angeles Department of Airports,<br>Refunding RB, Series A, 5.25%,<br>5/15/29                                     | 3,760        | 3,899,646    |
| Los Angeles Harbor Department, RB,<br>Series B, 5.25%, 8/01/34                                                       | 5,530        | 5,577,447    |
| Port of Oakland, RB, Series K, AMT<br>(NPFGC), 5.75%, 11/01/29                                                       | 11,405       | 11,138,579   |
| San Francisco City & County Airports<br>Commission, RB:<br>Series E, 6.00%, 5/01/39                                  | 9,650        | 10,111,656   |
| Special Facility Lease, SFO Fuel,<br>Series A, AMT (AGM), 6.10%,<br>1/01/20                                          | 1,000        | 1,001,440    |
| Special Facility Lease, SFO Fuel,<br>Series A, AMT (AGM), 6.13%,<br>1/01/27                                          | 985          | 985,670      |
| San Francisco City & County Airports<br>Commission, Refunding RB, Second<br>Series 34E, AMT (AGM):<br>5.75%, 5/01/24 | 5,000        | 5,275,800    |
| 5.75%, 5/01/25                                                                                                       | 3,500        | 3,651,445    |
| San Joaquin County Transportation<br>Authority, RB, Limited Tax, Measure K,<br>Series A, 6.00%, 3/01/36              | 2,400        | 2,531,088    |
|                                                                                                                      |              | 66,592,866   |

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**Utilities 17.1%**

|                                                                                                                      |       |           |
|----------------------------------------------------------------------------------------------------------------------|-------|-----------|
| Anaheim Public Financing Authority, RB,<br>Electric System Distribution Facilities,<br>Series A, 5.00%, 10/01/27 (a) | 4,690 | 4,819,116 |
| City of Glendale California, RB (NPFGC),<br>5.00%, 2/01/32                                                           | 4,380 | 4,351,705 |
| City of Los Angeles California, Refunding<br>RB, Sub-Series A:<br>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,<br>Sub-Series A (NPFGC), 5.00%,<br>7/01/28                                       | 5,500 | 5,506,325 |
| Contra Costa Water District, Refunding<br>RB, Series L (AGM), 5.00%, 10/01/32                                        | 4,135 | 4,151,085 |
| Dublin-San Ramon Services District,<br>Refunding RB, 6.00%, 8/01/41                                                  | 4,000 | 4,128,920 |
| East Bay Municipal Utility District, RB,<br>Series A (NPFGC), 5.00%, 6/01/37                                         | 4,000 | 4,035,320 |

| <b>Municipal Bonds</b> | <b>Par<br/>(000)</b> | <b>Value</b> |
|------------------------|----------------------|--------------|
|------------------------|----------------------|--------------|

**California (concluded)**

**Utilities (concluded)**

|                                                                                                                                |          |              |
|--------------------------------------------------------------------------------------------------------------------------------|----------|--------------|
| East Bay Municipal Utility District,<br>Refunding RB, Sub-Series A (AMBAC),<br>5.00%, 6/01/33                                  | \$ 4,125 | \$ 4,207,211 |
| East Valley Water District Financing<br>Authority, Refunding RB, 5.00%,<br>10/01/40                                            | 4,065    | 3,925,205    |
| Los Angeles County Sanitation Districts<br>Financing Authority, Refunding RB,<br>Capital Project 14 (BHAC), 5.00%,<br>10/01/34 | 7,915    | 7,927,110    |
| Los Angeles Department of Water &<br>Power, RB, Power System, Series A-2,<br>5.25%, 7/01/32                                    | 1,060    | 1,087,931    |
| Orange County Sanitation District, COP,<br>Series B (AGM), 5.00%, 2/01/30                                                      | 2,105    | 2,155,562    |
| Oxnard Financing Authority, RB,<br>Redwood Trunk Sewer & Headworks,<br>Series A (NPFGC), 5.25%, 6/01/34                        | 13,000   | 13,036,010   |
| Sacramento Regional County Sanitation<br>District, RB, Sacramento Regional<br>County Sanitation (NPFGC), 5.00%,<br>12/01/27    | 7,070    | 7,290,514    |
| San Diego County Water Authority, COP,<br>Series A (AGM), 5.00%, 5/01/31                                                       | 3,000    | 3,012,960    |
| San Diego Public Facilities Financing<br>Authority, Refunding RB, Senior<br>Series A, 5.25%, 5/15/34                           | 1,000    | 1,006,490    |
| Turlock Public Financing Authority<br>California, RB, Series A (NPFGC),<br>5.00%, 9/15/33                                      | 3,000    | 2,995,830    |
| Vallecitos Water District California, COP,<br>Refunding, Series A (AGM), 5.00%,<br>7/01/27                                     | 2,000    | 2,057,600    |

80,787,924

|                              |              |             |
|------------------------------|--------------|-------------|
| <b>Total Municipal Bonds</b> | <b>97.9%</b> | 462,758,257 |
|------------------------------|--------------|-------------|

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


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**California 70.8%**


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**Corporate 5.7%**

|                                                                                               |        |                   |
|-----------------------------------------------------------------------------------------------|--------|-------------------|
| San Francisco Bay Area Rapid Transit District, Refunding RB, Series A (NPFGC), 5.00%, 7/01/30 | 19,630 | 20,020,833        |
| University of California, RB, Series L, 5.00%, 5/15/40                                        | 7,398  | 7,145,044         |
|                                                                                               |        | <b>27,165,877</b> |

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**County/City/Special District/School District 32.8%**

|                                                                                  |        |            |
|----------------------------------------------------------------------------------|--------|------------|
| Desert Community College District California, GO, Series C (AGM), 5.00%, 8/01/37 | 12,150 | 11,685,384 |
|----------------------------------------------------------------------------------|--------|------------|

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BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC.

APRIL 30, 2011

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## Schedule of Investments (continued)

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

| Municipal Bonds Transferred to Tender<br>Option Bond Trusts (b)                                                          | Par<br>(000) | Value         |
|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| <b>California (continued)</b>                                                                                            |              |               |
| <b>County/City/Special District/School<br/>District (concluded)</b>                                                      |              |               |
| Fremont Unified School District Alameda<br>County California, GO, Election<br>of 2002, Series B (AGM), 5.00%,<br>8/01/30 | \$ 15,997    | \$ 16,044,360 |
| Los Angeles Community College District<br>California, GO:<br>Election of 2001, Series A (AGM),<br>5.00%, 8/01/32         | 12,000       | 11,905,920    |
| Election of 2001, Series A (NPFGC),<br>5.00%, 8/01/32                                                                    | 26,438       | 26,162,564    |
| Election of 2003, Series E (AGM),<br>5.00%, 8/01/31                                                                      | 7,497        | 7,496,787     |
| Election of 2008, Series A, 6.00%,<br>8/01/33                                                                            | 9,596        | 10,358,510    |
| Los Angeles Unified School District<br>California, GO, Series I, 5.00%,<br>1/01/34                                       | 5,000        | 4,854,400     |
| Ohlone Community College District, GO,<br>Ohlone, Series B (AGM), 5.00%,<br>8/01/30                                      | 19,998       | 20,057,060    |
| Poway Unified School District, GO,<br>Election of 2002, Improvement<br>District 02, Series 1-B (AGM), 5.00%,<br>8/01/30  | 10,000       | 9,962,500     |
| San Bernardino Community College<br>District California, GO, Election<br>of 2002, Series C (AGM), 5.00%,<br>8/01/31      | 7,550        | 7,370,914     |
| San Diego County Water Authority, COP,<br>Series A (AGM), 5.00%, 5/01/30                                                 | 7,350        | 7,402,994     |
| San Francisco Bay Area Transit<br>Financing Authority, Refunding RB,<br>Series A (NPFGC), 5.00%, 7/01/34                 | 10,497       | 10,574,902    |
| San Jose Financing Authority, Refunding<br>RB, Civic Center Project, Series B<br>(AMBAC), 5.00%, 6/01/32                 | 11,400       | 10,940,352    |
|                                                                                                                          |              | 154,816,647   |
| <b>Education 4.2%</b>                                                                                                    |              |               |
| University of California, RB:<br>Limited Project, Series D (AGM),<br>5.00%, 5/15/41                                      | 8,000        | 7,710,800     |

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|                          |        |            |
|--------------------------|--------|------------|
| Series O, 5.75%, 5/15/34 | 11,190 | 11,907,615 |
|                          |        | 19,618,415 |

**Utilities 28.1%**

|                                                                                                                                      |        |            |
|--------------------------------------------------------------------------------------------------------------------------------------|--------|------------|
| Anaheim Public Financing Authority<br>California, RB, Electric System<br>Distribution Facilities, Series A (AGM),<br>5.00%, 10/01/31 | 3,568  | 3,558,927  |
| City of Napa California, RB (AMBAC),<br>5.00%, 5/01/35                                                                               | 9,070  | 8,994,810  |
| East Bay Municipal Utility District, RB,<br>Sub-Series A (NPFGC), 5.00%,<br>6/01/35                                                  | 15,000 | 14,916,150 |
| East Bay Municipal Utility District,<br>Refunding RB, Sub-Series A (AMBAC),<br>5.00%, 6/01/37                                        | 7,990  | 8,056,397  |

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

**Par  
(000)**

**Value**

**California (concluded)**

**Utilities (concluded)**

|                                                                                                                      |          |              |
|----------------------------------------------------------------------------------------------------------------------|----------|--------------|
| Los Angeles Department of Water &<br>Power, RB:                                                                      |          |              |
| Power System, Sub-Series A-1<br>(AGM), 5.00%, 7/01/31                                                                | \$ 5,007 | \$ 5,052,184 |
| Power System, Sub-Series A-1<br>(AGM), 5.00%, 7/01/37                                                                | 13,525   | 13,407,012   |
| Power System, Sub-Series A-1<br>(AMBAC), 5.00%, 7/01/37                                                              | 5,029    | 4,985,442    |
| System, Sub-Series A-2 (AGM),<br>5.00%, 7/01/35                                                                      | 7,500    | 7,502,850    |
| Los Angeles Department of Water &<br>Power, Refunding RB, Power System,<br>Sub-Series A-2 (NPFGC), 5.00%,<br>7/01/27 | 16,000   | 16,222,400   |
| Metropolitan Water District of Southern<br>California, RB:                                                           |          |              |
| Series A, 5.00%, 7/01/37                                                                                             | 15,000   | 15,141,600   |
| Series B-1 (NPFGC), 5.00%,<br>10/01/33                                                                               | 7,175    | 7,229,998    |
| Rancho Water District Financing<br>Authority, Refunding RB, Series A<br>(AGM), 5.00%, 8/01/34                        | 9,277    | 9,200,377    |
| San Diego County Water Authority, COP,<br>Refunding, Series 2008-A (AGM),<br>5.00%, 5/01/33                          | 8,510    | 8,519,957    |
| San Diego County Water Authority, COP,<br>Series A (AGM), 5.00%, 5/01/31                                             | 10,000   | 10,043,200   |
|                                                                                                                      |          | 132,831,304  |

**Total Municipal Bonds Transferred to  
Tender Option Bond Trusts 70.8%**

334,432,243

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|                                    |             |
|------------------------------------|-------------|
| <b>Total Long-Term Investments</b> |             |
| (Cost \$810,017,640) 168.7%        | 797,190,500 |

|                                                      |                     |
|------------------------------------------------------|---------------------|
| <b>Short-Term Securities</b>                         | <b>Shares</b>       |
| BIF California Municipal Money Fund,<br>0.04% (c)(d) | 4,080,490 4,080,490 |

|                                    |           |
|------------------------------------|-----------|
| <b>Total Short-Term Securities</b> |           |
| (Cost \$4,080,490) 0.8%            | 4,080,490 |

|                                                             |                |
|-------------------------------------------------------------|----------------|
| <b>Total Investments</b>                                    |                |
| (Cost \$814,098,130*) 169.5%                                | 801,270,990    |
| <b>Other Assets Less Liabilities</b> 2.5%                   | 11,874,132     |
| <b>Liability for Trust Certificates, Including Interest</b> |                |
| <b>Expense and Fees Payable</b> (36.8)%                     | (174,073,496)  |
| <b>Preferred Shares, at Redemption Value</b> (35.2)%        | (166,519,919)  |
| <b>Net Assets Applicable to Common Shares</b> 100.0%        | \$ 472,551,707 |

## Schedule of Investments (continued)

## BlackRock MuniYield California Quality Fund, Inc. (MCA)

- \* 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                | \$ 640,184,010  |
| Gross unrealized appreciation | \$ 5,458,501    |
| Gross unrealized depreciation | (18,293,935)    |
| Net unrealized depreciation   | \$ (12,835,434) |

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

| Counterparty        | Value        | Unrealized<br>Appreciation |
|---------------------|--------------|----------------------------|
| JPMorgan Securities | \$ 4,819,116 | \$ 19,089                  |
| Piper Jaffray       | \$ 9,613,164 | \$ 4,827                   |

- (b) 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.
- (c) 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:

| Affiliate                                 | Shares<br>Held at<br>July 31,<br>2010 | Net<br>Activity | Shares<br>Held at<br>April 30,<br>2011 | Income   |
|-------------------------------------------|---------------------------------------|-----------------|----------------------------------------|----------|
| BIF California<br>Municipal<br>Money Fund | 39,049,939                            | (34,969,449)    | 4,080,490                              | \$ 3,956 |

- (d) 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

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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 |
|-----------|----------------------------|------------------------|------------|----------------|-------------------------|
| 170       | 10-Year U.S. Treasury Note | Chicago Board of Trade | June 2011  | \$ 20,147,333  | \$ (446,573)            |

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC.

APRIL 30, 2011

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## Schedule of Investments (concluded)

## BlackRock MuniYield California Quality Fund, Inc. (MCA)

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          |
|------------------------------------|--------------|----------------|---------|----------------|
| <b>Assets:</b>                     |              |                |         |                |
| Investments:                       |              |                |         |                |
| Long-Term Investments <sup>1</sup> |              | \$ 797,190,500 |         | \$ 797,190,500 |
| Short-Term Securities              | \$ 4,080,490 |                |         | 4,080,490      |
| <b>Total</b>                       | \$ 4,080,490 | \$ 797,190,500 |         | \$ 801,270,990 |

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

| Valuation Inputs                              | Level 1      | Level 2 | Level 3 | Total        |
|-----------------------------------------------|--------------|---------|---------|--------------|
| Derivative Financial Instruments <sup>2</sup> |              |         |         |              |
| <b>Liabilities:</b>                           |              |         |         |              |
| Interest rate contracts                       | \$ (446,573) |         |         | \$ (446,573) |

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



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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 MuniYield California Quality Fund, Inc.

By: /s/ John M. Perlowski  
John M. Perlowski  
Chief Executive Officer of  
BlackRock MuniYield 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 MuniYield California Quality Fund, Inc.

Date: June 24, 2011

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

Date: June 24, 2011

