

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC.

Form N-Q

December 21, 2012

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: 07/31/2013

Date of reporting period: 10/31/2012

Item 1 – Schedule of Investments

Schedule of Investments October 31, 2012 (Unaudited) **BlackRock MuniYield California Quality Fund, Inc. (MCA)** (Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
California — 86.5%		
Corporate — 0.5%		
City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series A, 5.88%, 2/15/34	\$2,435	\$2,872,643
County/City/Special District/School District — 27.4%		
Bay Area Governments Association, Refunding RB, California Redevelopment Agency Pool, Series A (AGM), 6.00%, 12/15/24	255	256,594
California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, 6.13%, 11/01/29	3,275	4,028,315
Chabot-Las Positas Community College District, GO, CAB, Series C (AMBAC), 5.28%, 8/01/37 (a)	10,000	2,750,700
County of Kern California, COP, Capital Improvements Projects, Series A (AGC), 6.00%, 8/01/35	2,000	2,343,240
Fairfield-Suisun Unified School District California, GO, Election of 2002 (NPFGC), 5.50%, 8/01/14 (b)	2,500	2,686,475
Grossmont Healthcare District, GO, Election of 2006, Series B, 6.13%, 7/15/40	2,500	3,075,675
Grossmont Union High School District, GO, Election of 2008, Series C, 5.50%, 8/01/33	1,855	2,233,235
Los Angeles Community Redevelopment Agency California, RB, Bunker Hill Project, Series A (AGM), 5.00%, 12/01/27	7,000	7,515,550
Los Angeles County Metropolitan Transportation Authority, Refunding RB, Proposition A, First Tier, Senior Series A (AMBAC), 5.00%, 7/01/27	4,000	4,389,920
Los Angeles Municipal Improvement Corp., Refunding RB, Real Property, Series B (AGC), 5.50%, 4/01/39	2,035	2,290,677
Merced Union High School District, GO, CAB, Election of 2008, Series C (a): 5.14%, 8/01/33	2,500	871,950
5.26%, 8/01/36	4,000	1,164,480

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

Ohlone Community College District, GO, Election of 2010, Series A, 5.25%, 8/01/41	8,140	9,451,517
Orange County Sanitation District, COP, Series A, 5.00%, 2/01/35	2,500	2,856,350
Orange County Water District, COP, Refunding, 5.25%, 8/15/34	9,045	10,669,301
Orchard School District California, GO, Election of 2001, Series A (AGC), 5.00%, 8/01/34	7,490	8,442,728
Oxnard Union High School District California, GO, Refunding, Series A (NPFGC), 6.20%, 8/01/30	9,645	10,875,702

	Par (000)	Value
Municipal Bonds		
California (continued)		
County/City/Special District/School District (concluded)		
Pittsburg Unified School District, GO, Election of 2006, Series B (AGM):		
5.50%, 8/01/34	\$2,000	\$2,282,580
5.63%, 8/01/39	4,500	5,137,245
Port of Oakland, Refunding RB, Series M (NPFGC), 5.38%, 11/01/27	5,000	5,000,000
Redlands Unified School District California, GO, Election of 2008 (AGM), 5.25%, 7/01/33	5,000	5,604,200
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/38	4,895	5,380,143
San Jose Financing Authority, RB, Convention Center Expansion & Renovation Project:		
5.75%, 5/01/36	2,570	2,891,430
5.75%, 5/01/42	4,500	5,253,300
San Jose Financing Authority, Refunding RB, Civic Center Project, Series B (AMBAC), 5.00%, 6/01/32	11,400	11,436,708
San Juan Unified School District, GO, Election of 2002 (AGM), 5.00%, 8/01/34	6,475	7,330,801
San Leandro Unified School District California, GO, Election of 2010, Series A, 5.75%, 8/01/41	3,000	3,582,180
Snowline Joint Unified School District, COP, Refunding, Refining Project (AGC), 5.75%, 9/01/38	5,600	6,469,960
Walnut Valley Unified School District,		

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

GO, Election of 2007, Series B, 5.75%, 8/01/41	7,680	9,112,320
West Contra Costa Unified School District California, GO, Election of 2010, Series A, 5.25%, 8/01/41	6,140	7,023,116
Westminster Redevelopment Agency California, Tax Allocation Bonds, Subordinate, Commercial Redevelopment Project No. 1 (AGC), 6.25%, 11/01/39	4,300	5,226,951 157,633,343
Education — 9.3%		
Anaheim City School District California, GO, Election of 2010 (AGM), 6.25%, 8/01/40	3,750	4,611,825
California Municipal Finance Authority, RB, Emerson College, 6.00%, 1/01/42	2,500	2,958,350
California State University, Refunding ERB, 5.00%, 11/01/37	6,665	7,709,472

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

1

Schedule of Investments (continued) **BlackRock MuniYield California Quality Fund, Inc. (MCA) (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	\$2,165	\$2,636,407
5.75%, 8/01/35	8,400	10,230,696
University of California, Refunding RB, Limited Project, Series G, 5.00%, 5/15/37	21,785	25,395,428 53,542,178
Health — 14.7%		
ABAG Finance Authority for Nonprofit Corps, Refunding RB, Sharp Healthcare, Series A, 6.00%, 8/01/30	2,270	2,784,677
California Health Facilities Financing Authority, RB:		
Children's Hospital, Series A, 5.25%, 11/01/41	8,000	8,903,040
Providence Health Services, Series B, 5.50%, 10/01/39	4,105	4,692,015
Sutter Health, Series A, 5.25%, 11/15/46	10,000	10,921,400
Sutter Health, Series B, 6.00%, 8/15/42	7,715	9,270,035
California Health Facilities Financing Authority, Refunding RB:		
Catholic Healthcare West, Series A, 6.00%, 7/01/34	2,130	2,524,710
Catholic Healthcare West, Series A, 6.00%, 7/01/39	5,500	6,504,575
Stanford Hospital, Series A-3, 5.50%, 11/15/40	3,000	3,585,210
California Statewide Communities Development Authority, RB:		
Health Facility, Memorial Health Services, Series A, 6.00%, 4/01/13 (b)	3,685	3,772,556
Kaiser Permanente, Series A, 5.00%, 4/01/42	15,000	16,613,700
Kaiser Permanente, Series B, 5.25%, 3/01/45	3,845	4,080,891
Sutter Health, Series A, 6.00%,		

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

8/15/42	4,275	5,136,669
California Statewide Communities Development Authority, Refunding RB, Catholic Healthcare West, Series D (BHAC), 5.50%, 7/01/31	865	995,070
City of Newport Beach California, Refunding RB, Hoag Memorial Hospital Presbyterian, 6.00%, 12/01/40	3,825	4,714,236 84,498,784

	Par (000)	Value
Municipal Bonds		
California (continued)		
Housing — 0.00%		
California Rural Home Mortgage Finance Authority, RB, Mortgage-Backed Securities Program, Series A, AMT (Ginnie Mae), 6.35%, 12/01/29 (c)	\$60	\$61,407
County of San Bernardino California, Refunding RB, Home Mortgage- Backed Securities, Series A-1, AMT (Ginnie Mae), 6.25%, 12/01/31	95	103,494 164,901
State — 6.5%		
California State Public Works Board, RB, Department of Education, Riverside Campus Project, Series B, 6.50%, 4/01/34	3,670	4,416,955
State of California, GO, Various Purpose: 6.00%, 3/01/33	7,000	8,679,720
6.00%, 4/01/38	16,500	19,827,885
6.00%, 11/01/39	3,455	4,194,992 37,119,552
Transportation — 12.5%		
City of Los Angeles Department of Airports, Refunding RB, Senior Series A, 5.25%, 5/15/39	2,785	3,142,176
City of San Jose California, Refunding ARB, Series A-1, AMT, 6.25%, 3/01/34	1,400	1,682,856
County of Orange California, ARB, Series B, 5.75%, 7/01/34	5,000	5,636,200
County of Sacramento California, ARB, Airport System: Senior Series B AMT (AGM), 5.25%, 7/01/33	7,550	8,183,067
Subordinated and Passenger Facility Charges/Grant, Series C		

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

(AGC), 5.75%, 7/01/39 Los Angeles Department of Airports, Refunding RB, Los Angeles International Airport, Senior Series A, 5.25%, 5/15/29	5,505 3,760	6,257,533 4,365,398
Los Angeles Harbor Department, RB, Series B: 5.25%, 8/01/34	5,530	6,454,008
5.25%, 8/01/39 San Diego County Regional Airport Authority, Refunding RB, Series B, 5.00%, 7/01/40	2,480 6,350	2,854,530 6,945,122
San Francisco City & County Airports Commission, RB: Series E, 6.00%, 5/01/39	9,650	11,410,642

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

2

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

	<b>Par (000)</b>	<b>Value</b>
Municipal Bonds		
California (continued)		
Transportation (concluded)		
San Francisco City & County Airports Commission, RB (concluded):		
Special Facility Lease, SFO Fuel, Series A AMT (AGM), 6.10%, 1/01/20	\$1,000	\$1,003,160
Special Facility Lease, SFO Fuel, Series A AMT (AGM), 6.13%, 1/01/27	985	987,325
San Francisco City & County Airports Commission, Refunding RB, Second Series 34E, AMT (AGM):		
5.75%, 5/01/24	5,000	5,806,050
5.75%, 5/01/25	3,500	4,028,745
San Joaquin County Transportation Authority, Refunding RB, Limited Tax, Series A, 6.00%, 3/01/36	2,400	2,943,168 71,699,980
Utilities — 15.6%		
Anaheim Public Financing Authority, RB, Electric System Distribution Facilities, Series A, 5.38%, 10/01/36	5,000	5,893,650
City of Los Angeles California Wastewater System, Refunding RB, Sub-Series A:		
5.00%, 6/01/28	2,000	2,352,460
5.00%, 6/01/32	3,000	3,454,680
Dublin-San Ramon Services District, Refunding RB, 6.00%, 8/01/41	4,000	4,877,560
East Bay Municipal Utility District, Refunding RB, Series A (NPFGC), 5.00%, 6/01/37	4,000	4,582,800
East Bay Municipal Utility District, Refunding RB, Sub-Series A:		
5.00%, 6/01/30	5,000	5,965,150
5.00%, 6/01/37	10,000	11,457,000
(AMBAC), 5.00%, 6/01/33	3,000	3,434,250
Imperial Irrigation District, Refunding RB, Electric System, Series B, 5.13%, 11/01/38	5,520	6,070,620
Los Angeles Department of Water &		

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

Power, RB, 5.00%, 7/01/43	7,000	8,103,270
Los Angeles Department of Water & Power, Refunding RB:		
Power System, Series A, Sub-Series A-2 (NPFGC), 5.00%, 7/01/27	15,000	15,408,150
Series A, 5.25%, 7/01/39	8,000	9,434,480
Metropolitan Water District of Southern California, RB, Series B-1 (NPFGC) (b):		
5.00%, 10/01/13	290	302,659
5.00%, 10/01/13	6,885	7,185,530

	Par (000)	Value
Municipal Bonds		
California (concluded)		
Utilities (concluded)		
San Diego Public Facilities Financing Authority, Refunding RB, Senior Series A, 5.25%, 5/15/34	\$1,000	\$1,149,960
		89,672,219
Total Municipal Bonds – 86.5%		497,203,600

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (d) California — 74.4%		
County/City/Special District/School District — 38.0%		
Arcadia Unified School District California, GO, Election of 2006, Series A (AGM), 5.00%, 8/01/37	7,925	8,523,156
Desert Community College District California, GO, Series C (AGM), 5.00%, 8/01/37	12,150	13,229,041
Fremont Unified School District Alameda County California, GO, Election of 2002, Series B (AGM), 5.00%, 8/01/30	15,997	17,545,160
Los Angeles Community College District California, GO:		
Election of 2001, Series A (AGM), 5.00%, 8/01/32	12,000	13,648,560
Election of 2001, Series A (NPFGC), 5.00%, 8/01/32	26,438	30,069,513
Election of 2003, Series E (AGM), 5.00%, 8/01/31	7,497	8,413,737
Election of 2003, Series F-1, 5.00%, 8/01/33	12,000	13,748,040
Los Angeles Community College District California, GO, Refunding, Election of 2008, Series A, 6.00%, 8/01/33	9,596	12,118,382

Los Angeles County Metropolitan Transportation Authority, Refunding RB, Proposition A, First Tier, Senior Series A (AMBAC), 5.00%, 7/01/35	6,828	7,463,237
Los Angeles County Sanitation Districts Financing Authority, Refunding RB, Capital Project 14 (BHAC), 5.00%, 10/01/34	4,998	5,459,365
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	5,000	5,662,950
Ohlone Community College District, GO, Series B (AGM), 5.00%, 8/01/15 (b)	19,998	22,526,860

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

3

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

	Par (000)	Value
Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (d) 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	\$ 10,863,000
San Bernardino Community College District California, GO, Election of 2002, Series C (AGM), 5.00%, 8/01/31	7,550	8,373,554
San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/30	7,350	7,765,202
San Francisco Bay Area Rapid Transit District, Refunding RB, Series A (NPFGC):		
5.00%, 7/01/30	19,630	21,429,875
5.00%, 7/01/34	10,497	11,459,632
		218,299,264
Education — 11.3%		
California State University, Refunding RB, Systemwide, Series C (NPFGC), 5.00%, 11/01/35	20,000	21,897,800
Los Rios Community College District, GO, Election of 2008, Series A, 5.00%, 8/01/35	11,000	12,453,870
University of California, RB: Limited Project, Series D (AGM), 5.00%, 5/15/41	8,000	8,887,280
Series L, 5.00%, 5/15/40	7,398	8,324,456
Series O, 5.75%, 5/15/34	11,190	13,438,892
		65,002,298
Transportation — 1.0%		
City of Los Angeles California Department of Airports, Refunding RB, Senior, Los Angeles International Airport, Series A, 5.00%, 5/15/40	4,999	5,651,285
Utilities — 24.1%		
City of Napa California Water Revenue, RB (AMBAC), 5.00%, 5/01/35	9,070	9,832,243
East Bay Municipal Utility District, RB,		

Edgar Filing: BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. - Form N-Q

Sub-Series A (NPFGC), 5.00%, 6/01/35	15,000	16,373,250
East Bay Municipal Utility District, Refunding RB, Sub-Series A (AMBAC), 5.00%, 6/01/37	7,990	9,131,372
Los Angeles Department of Water & Power, RB: Power System, Sub-Series A-1 (AGM), 5.00%, 7/01/37	13,525	15,288,629
Sub-Series A-1 (AMBAC), 5.00%, 7/01/37	5,029	5,685,115

	Par (000)	Value
Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (d) California (concluded) Utilities (concluded) Los Angeles Department of Water & Power, RB (concluded): Sub-Series A-2 (AGM), 5.00%, 7/01/35	\$7,500	\$8,465,925
Metropolitan Water District of Southern California, RB, Series A, 5.00%, 7/01/37	15,000	17,204,250
Rancho Water District Financing Authority, Refunding RB, Series A (AGM), 5.00%, 8/01/34	9,277	10,265,350
San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/31	10,000	10,540,000
San Diego County Water Authority, COP, Refunding, Series 2008-A (AGM), 5.00%, 5/01/33	8,510	9,449,079
San Francisco City & County Public Utilities Commission, RB, Water System Improvement Program, Sub- Series A, 5.00%, 11/01/37	22,997	26,503,003
		138,738,216
Total Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts – 74.4%		427,691,063
Total Long-Term Investments (Cost – \$841,955,551) – 160.9%		924,894,663

**Shares**

Short-Term Securities BIF California Municipal Money Fund, 0.00% (e)(f)	2,609,502	2,609,502
Total Short-Term Securities (Cost – \$2,609,502) – 0.5%		2,609,502
Total Investments (Cost - \$844,565,053*) – 161.4%		927,504,165

Other Assets Less Liabilities – 1.8%	9,940,570
Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable – (34.2)%	(196,420,001)
VRDP Shares, at Liquidation Value – (29.0)%	(166,500,000)
Net Assets Applicable to Common Shares – 100.0%	\$574,524,734

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

4

Schedule of Investments (continued) **BlackRock MuniYield California Quality Fund, Inc. (MCA)**

\* As of October 31, 2012, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 647,977,759
Gross unrealized appreciation	\$ 83,245,088
Gross unrealized depreciation	(7,346)
Net unrealized appreciation	\$ 83,237,742

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

(b) 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.

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

(d) 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.

(e) Investments in issuers considered to be an affiliate of the Fund during the period ended October 31, 2012, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at July 31, 2012	Net Activity	Shares Held at October 31, 2012	Income
BIF California Municipal Money Fund	4,870,908	(2,261,406)	2,609,502	\$2

(f) 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 rating 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.

### 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
ERB	Education Revenue Bonds
Ginnie Mae	Government National Mortgage Association
GO	General Obligation Bonds
NPFGC	National Public Finance Guarantee Corp.
RB	Revenue Bonds

Fair Value Measurements - Various inputs are used in determining the fair value of investments. 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)

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 is based on the pricing transparency of the investment 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 other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its annual report.

The following table summarizes the Fund's investments categorized in the disclosure hierarchy as of October 31, 2012:

	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
Investments:				
Long Term				
Investments <sup>1</sup>	—	\$924,894,663	—	\$924,894,663
Short-Term				
Securities	\$2,609,502	—	—	2,609,502
<b>Total</b>	\$2,609,502	\$924,894,663	—	\$927,504,165

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

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

5

Schedule of Investments (concluded) **BlackRock MuniYield California Quality Fund, Inc. (MCA)**

Certain of the Fund's liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of October 31, 2012, such liabilities are categorized within the disclosure hierarchy as follows:

	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Total</b>
<b>Liabilities:</b>				
Bank				
overdraft	—	\$ (381,566)	—	\$(381,566)
TOB trust				
certificates	—	(196,288,664)	—	(196,288,664)
VRDP				
Shares	—	(166,500,000)	—	(166,500,000)
<b>Total</b>	—	\$ (363,170,230)	—	\$ (363,170,230)

There were no transfers between levels during the period ended October 31, 2012.

BLACKROCK MUNIYIELD CALIFORNIA QUALITY FUND, INC. OCTOBER 31, 2012

6

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

Date: December 21, 2012

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: December 21, 2012

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of  
BlackRock MuniYield California Quality Fund, Inc.

Date: December 21, 2012