

BLACKROCK MUNIYIELD CALIFORNIA 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 811-06499

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

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock  
MuniYield California 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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BlackRock MuniYield California Fund, Inc. (MYC)

**Schedule of Investments** April 30, 2011 (Unaudited)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
<b>California — 98.2%</b>		
<b>Corporate — 2.3%</b>		
City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series A, 5.88%, 2/15/34	\$ 975	\$ 1,015,346
University of California, RB, Series O, 5.25%, 5/15/39	5,590	5,640,925
		6,656,271
<b>County/City/Special District/School District — 37.5%</b>		
California State Public Works Board, RB, Various Capital Projects, Sub-Series I-1, 6.63%, 11/01/34	5,000	5,273,850
Campbell Union High School District, GO, Election of 2006, Series C, 5.75%, 8/01/40	4,000	4,150,720
City & County of San Francisco California, COP, Refunding, Series A: 5.00%, 10/01/29	3,540	3,523,008
5.00%, 10/01/30	6,700	6,601,510
City of Los Angeles California, COP, Senior, Sonnenblick Del Rio West Los Angeles (AMBAC), 6.20%, 11/01/31	2,000	2,010,020
City of San Jose California, RB, Convention Center Expansion & Renovation Project: 6.50%, 5/01/36	1,520	1,534,455
6.50%, 5/01/42	1,860	1,866,770
El Dorado Union High School District, GO, Election of 2008, 5.00%, 8/01/35	5,000	5,073,650
El Monte Union High School District California, GO, Election of 2002, Series C (AGM), 5.25%, 6/01/32	10,120	10,317,340
Grossmont Healthcare District, GO,		

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Election of 2006, Series B, 6.13%, 7/15/40	2,000	2,102,060
Los Angeles Municipal Improvement Corp., RB, Real Property, Series E: 5.75%, 9/01/34	1,000	1,025,190
6.00%, 9/01/34	2,285	2,380,559
Murrieta Valley Unified School District Public Financing Authority, Special Tax Bonds, Refunding, Series A (AGC), 5.13%, 9/01/26	6,575	6,683,422
Oak Grove School District California, GO, Election of 2008, Series A, 5.50%, 8/01/33	4,000	4,155,520
Pico Rivera Public Financing Authority, RB: 5.50%, 9/01/31	1,500	1,502,865
5.75%, 9/01/39	6,025	5,925,166

	Par (000)	Value
Municipal Bonds		
California (continued)		
County/City/Special District/School District (concluded)		
Pittsburg Redevelopment Agency, Tax Allocation Bonds, Refunding, Subordinate, Los Medanos Community Project, Series A, 6.50%, 9/01/28	\$ 2,750	\$ 2,628,725
San Diego Regional Building Authority California, RB, County Operations Center & Annex, Series A: 5.38%, 2/01/28	150	155,715
5.38%, 2/01/36	4,700	4,712,878
San Jose Evergreen Community College District California, GO, Refunding, CAB, Election of 2004, Series A (NPFGC), 5.12%, 9/01/23 (a)	10,005	5,055,126
San Jose Unified School District Santa Clara County California, GO, Election of 2002, Series D, 5.00%, 8/01/32	5,075	5,086,875

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Santa Ana Unified School District, GO, Election of 2008, Series A, 5.13%, 8/01/33	5,965	5,960,586
Santa Clara County Financing Authority, Refunding LRB, Series L, 5.25%, 5/15/36	10,000	9,849,100
Santa Cruz County Redevelopment Agency California, Tax Allocation Bonds, Live Oak/Soquel Community Improvement, Series A: 6.63%, 9/01/29	1,000	1,066,770
7.00%, 9/01/36	600	636,834
Twin Rivers Unified School District, GO, Election of 2006 (AGM), 5.00%, 8/01/29	9,390	9,445,307
Westminster Redevelopment Agency California, Tax Allocation Bonds, Subordinate, Commercial Redevelopment Project No. 1 (AGC), 6.25%, 11/01/39	1,250	1,360,513
		110,084,534
 <b>Education — 8.0%</b>		
California Educational Facilities Authority, RB, Pitzer College, 6.00%, 4/01/40	2,500	2,530,825
California Educational Facilities Authority, Refunding RB, San Francisco University, 6.13%, 10/01/36	1,000	1,028,250

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



BlackRock MuniYield California Fund, Inc. (MYC)

**Schedule of Investments** (continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
California (continued)		
Education (concluded)		
California State Enterprise Development Authority, Refunding RB, The Thatcher School Project, 5.13%, 9/01/39	\$ 6,965	\$ 6,649,276
California State University, RB, Systemwide, Series A: 5.50%, 11/01/39	2,725	2,652,379
(AGM), 5.00%, 11/01/39	4,840	4,371,633
San Francisco Community College District, GO, Election of 2005, Series D, 5.00%, 6/15/34	6,420	6,341,612
		23,573,975
Health — 15.4%		
ABAG Finance Authority for Nonprofit Corps, Refunding RB, Sharp Healthcare: 6.38%, 8/01/34	2,000	2,014,020
Series A, 6.00%, 8/01/30	2,250	2,229,480
California Health Facilities Financing Authority, Refunding RB: Catholic Healthcare West, Series A, 6.00%, 7/01/39	10,000	10,056,700
Providence Health, 6.50%, 10/01/38	2,650	2,832,850
St. Joseph Health System, Series A, 5.50%, 7/01/29	2,100	1,993,467
Sutter Health, Series B, 6.00%, 8/15/42	5,215	5,288,584
California Statewide Communities Development Authority, RB: Health Facility, Memorial Health Services, Series A, 6.00%, 10/01/23	3,270	3,356,786

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Health Facility, Memorial Health Services, Series A, 5.50%, 10/01/33	3,580	3,516,491
Sutter Health, Series A, 6.00%, 8/15/42	3,600	3,650,796
California Statewide Communities Development Authority, Refunding RB: Catholic Healthcare West, Series D, 5.50%, 7/01/31	5,355	5,195,903
Senior Living, Southern California, 6.25%, 11/15/19	500	523,500
Senior Living, Southern California, 6.63%, 11/15/24	650	680,186
Senior Living, Southern California, 7.00%, 11/15/29	500	521,490
Senior Living, Southern California, 7.25%, 11/15/41	1,750	1,830,272
City of Torrance California, Refunding RB, Torrance Memorial Medical Center, Series A, 6.00%, 6/01/22	1,310	1,326,991
		45,017,516
<b>Housing — 1.1%</b>		
California Rural Home Mortgage Finance Authority, RB, AMT: Mortgage-Backed Securities Program, Series B (Ginnie Mae), 6.15%, 6/01/20	15	15,286
Sub-Series FH-1, 5.50%, 8/01/47	300	137,670

	Par (000)	Value
Municipal Bonds		
<b>California (continued)</b>		
<b>Housing (concluded)</b>		
Santa Clara County Housing Authority California, RB, John Burns Gardens Apartments Project, Series A, AMT, 6.00%, 8/01/41	\$ 3,500	\$ 3,213,210
		3,366,166

**State — 6.6%**

California State Public Works Board, RB:

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Department of Developmental Services, Porterville, Series C, 6.25%, 4/01/34	1,190	1,215,990
Department of Education, Riverside Campus Project, Series B, 6.50%, 4/01/34	10,000	10,406,800
Trustees of the California State University, Series D, 6.00%, 4/01/27	215	223,215
Various Capital Projects, Sub-Series I-1, 6.38%, 11/01/34	1,850	1,911,216
State of California, GO, Various Purpose, 6.50%, 4/01/33	5,000	5,492,250
		19,249,471
<b>Transportation — 7.2%</b>		
County of Orange California, RB, Series B, 5.75%, 7/01/34	3,000	3,145,560
County of Sacramento California, RB, Senior Series B, 5.75%, 7/01/39	900	907,272
Port of Oakland, RB, Series K, AMT (NPFGC), 5.88%, 11/01/30	4,685	4,591,815
San Francisco City & County Airports Commission, RB, Series E, 6.00%, 5/01/39	5,065	5,307,310
San Francisco Port Commission California, RB, Series A, 5.13%, 3/01/40	5,000	4,675,300
San Joaquin County Transportation Authority, RB, Limited Tax, Measure K, Series A, 6.00%, 3/01/36	2,400	2,531,088
		21,158,345
<b>Utilities — 20.1%</b>		
California Infrastructure & Economic Development Bank, RB, California Independent System Operator, Series A, 6.25%, 2/01/39	2,170	2,244,366
City of Chula Vista California, Refunding RB, San Diego Gas & Electric, Series D, 5.88%, 1/01/34	2,500	2,603,450
City of Los Angeles California, Refunding RB, Sub-Series A, 5.00%, 6/01/32	3,000	3,028,230



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City of Petaluma California, Refunding RB, 6.00%, 5/01/36	2,645	2,785,238
Dublin-San Ramon Services District, Refunding RB, 6.00%, 8/01/41	2,420	2,497,997
Eastern Municipal Water District California, COP, Series H, 5.00%, 7/01/35	8,400	8,091,384
Los Angeles Department of Water & Power, RB, Power System, Series A-2, 5.25%, 7/01/32	2,500	2,565,875
Oxnard Financing Authority, RB, Redwood Trunk Sewer & Headworks, Series A (NPFGC), 5.25%, 6/01/34	4,205	4,216,648

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BlackRock MuniYield California Fund, Inc. (MYC)

## Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
<b>California (concluded)</b>		
<b>Utilities (concluded)</b>		
Sacramento Municipal Utility District, RB, Cosumnes Project (NPFGC), 5.13%, 7/01/29	\$ 18,500	\$ 18,511,100
Sacramento Regional County Sanitation District, Refunding RB, County Sanitation District 1 (NPFGC), 5.00%, 8/01/35	6,260	6,259,499
San Diego Public Facilities Financing Authority, Refunding RB, Senior Series A, 5.38%, 5/15/34	3,910	3,967,242
San Francisco City & County Public Utilities Commission, Refunding RB, Series A, 5.13%, 11/01/39	2,295	2,302,206
		59,073,235
<b>Total Municipal Bonds in California</b>		<b>288,179,513</b>
<b>Puerto Rico — 2.8%</b>		
<b>County/City/Special District/School District — 1.4%</b>		
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.50%, 8/01/44	4,000	4,173,200
<b>State — 1.4%</b>		
Commonwealth of Puerto Rico, GO, Refunding, Public Improvement, Series B, 6.50%, 7/01/37	4,000	4,062,800
<b>Total Municipal Bonds in Puerto Rico</b>		<b>8,236,000</b>
<b>Total Municipal Bonds – 101.0%</b>		<b>296,415,513</b>
Municipal Bonds Transferred to Tender		
Option Bond Trusts (b)		
<b>California — 69.8%</b>		
<b>Corporate — 8.8%</b>		
San Francisco Bay Area Rapid Transit District, Refunding RB, Series A		

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(NPFGC), 5.00%, 7/01/30	6,000	6,119,460
University of California, RB: Limited Project, Series B (AGM), 5.00%, 5/15/33	8,488	8,387,581
Series L, 5.00%, 5/15/40	11,597	11,200,339
		25,707,380

County/City/Special District/School District — 31.4%

City of Los Angeles California, Refunding RB, Series A, 5.00%, 6/01/39	9,870	9,752,054
Contra Costa Community College District California, GO, Election of 2002 (AGM), 5.00%, 8/01/30	10,215	10,259,820
Fremont Unified School District Alameda County California, GO, Election of 2002, Series B (AGM), 5.00%, 8/01/30	4,003	4,014,852
Los Angeles Community College District California, GO: Election of 2001, Series E-1, 5.00%, 8/01/33	14,850	14,652,643
Election of 2003, Series E (AGM), 5.00%, 8/01/31	10,002	10,000,715
Election of 2008, Series A, 6.00%, 8/01/33	3,828	4,132,614

Municipal Bonds Transferred to Tender	Par		Value
Option Bond Trusts (b)	(000)		
<b>California (concluded)</b>			
<b>County/City/Special District/School District (concluded)</b>			
Los Angeles Community College District California, GO (concluded): Election of 2008, Series C, 5.25%, 8/01/39		\$ 9,680	\$ 9,778,155
Orange County Sanitation District, COP (NPFGC), 5.00%, 2/01/33		9,348	9,378,761
San Diego Community College District California, GO, Election of 2002, 5.25%, 8/01/33		7,732	7,861,044
San Francisco Bay Area Transit			

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Financing Authority, Refunding RB, Series A (NPFGC), 5.00%, 7/01/34	5,439	5,478,806
Sonoma County Junior College District, GO, Refunding, Election of 2002, Series B (AGM), 5.00%, 8/01/28	6,875	6,918,897
		92,228,361
<b>Education — 9.4%</b>		
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%, 10/01/39	13,845	14,203,585
Peralta Community College District, GO, Election of 2000, Series D (AGM), 5.00%, 8/01/30	1,995	1,980,217
University of California, RB: Series L, 5.00%, 5/15/36	8,500	8,274,835
Series O, 5.75%, 5/15/34	2,805	2,984,885
		27,443,522
<b>Utilities — 20.2%</b>		
Eastern Municipal Water District, COP, Series H, 5.00%, 7/01/33	4,748	4,647,899
Los Angeles Department of Water & Power, RB: Power System, Sub-Series A-1 (AMBAC), 5.00%, 7/01/37	15,098	14,966,237
System, Sub-Series A-2 (AGM), 5.00%, 7/01/35	7,250	7,252,755
Metropolitan Water District of Southern California, RB: Series A, 5.00%, 7/01/37	20,000	20,188,800
Series C, 5.00%, 7/01/35	7,145	7,209,277
San Diego County Water Authority, COP, Series A (AGM), 5.00%, 5/01/31	5,010	5,031,643
		59,296,611
Total Municipal Bonds Transferred to Tender Option Bond Trusts – 69.8%		204,675,874
Total Long-Term Investments (Cost – \$506,940,105) – 170.8%		501,091,387
Short-Term Securities	Shares	
BIF California Municipal Money Fund, 0.04% (c)(d)	1,179,593	1,179,593
Total Short-Term Securities		

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(Cost – \$1,179,593) – 0.4%

1,179,593

BLACKROCK MUNIYIELD CALIFORNIA FUND, INC.

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BlackRock MuniYield California Fund, Inc. (MYC)

## Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

Total Investments	
(Cost – \$508,119,698*) – 171.2%	\$ 502,270,980
Other Assets Less Liabilities – 2.0%	5,962,515
Liability for Trust Certificates, Including Interest	
Expense and Fees Payable – (37.1)%	(108,969,035)
Preferred Shares, at Redemption Value – (36.1)%	(105,966,582)
Net Assets Applicable to Common Shares – 100.0%	\$ 293,297,878

\* 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	\$ 399,242,196
Gross unrealized appreciation	\$ 4,517,753
Gross unrealized depreciation	<u>(10,366,471)</u>
Net unrealized depreciation	\$ (5,848,718)

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

(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:

	Shares Held at July 31, 2010	Net Activity	Shares Held at April 30, 2011	Income
Affiliate				
BIF California				
Municipal				
Money Fund	12,364,497	(11,184,904)	1,179,593	\$ 2,485

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

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

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized Depreciation
100	10-Year U.S. Treasury Note	Chicago Board of Trade	June 2011	\$ 11,851,372	\$ (262,690)

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•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 levels for financial reporting purposes as follows:

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

•Level 2 — other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

•Level 3 — unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments and derivative financial instruments )

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

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

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term				
Investments <sup>1</sup>	—	\$ 501,091,387	—	\$ 501,091,387
Short-Term				
Securities	\$ 1,179,593	—	—	1,179,593
Total	\$ 1,179,593	\$ 501,091,387	—	\$ 502,270,980

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

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APRIL 30, 2011

BlackRock MuniYield California Fund, Inc. (MYC)

**Schedule of Investments** (concluded)

Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments <sup>2</sup>				
Liabilities:				
Interest rate contracts	\$ (262,690)	—	—	\$ (262,690)

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

BLACKROCK MUNIYIELD CALIFORNIA FUND, INC.

APRIL 30, 2011

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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 Fund, Inc.

By: /S/ John M. Perlowski

John M. Perlowski

Chief Executive Officer of

BlackRock MuniYield California 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 Fund, Inc.

Date: June 24, 2011

By: /S/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniYield California Fund, Inc.

Date: June 24, 2011