MUNIYIELD CALIFORNIA FUND INC
Form N-Q
September 29, 2005

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 811-6499

Name of Fund: MuniYield California Fund, Inc.

Fund Address: P.O. Box 9011
Princeton, NJ 08543-9011

Name and address of agent for service: Robert C. Doll, Jr., Chief Executive Officer, MuniYield California Fund, Inc., 800 Scudders Mill Road, Plainsboro, NJ, 08536. Mailing address: P.O. Box 9011, Princeton, NJ, 08543-9011

Registrant's telephone number, including area code: (609) 282-2800

Date of fiscal year end: 10/31/05

Date of reporting period: 05/01/05 - 07/31/05

Item 1 - Schedule of Investments

MuniYield California Fund, Inc.

Schedule of Investments as of July 31, 2005

	Face Amount	Municipal Bonds
California - 135.0%	$ 1,730	ABAG Finance Authority for Nonprofit Corporations, California, Refunding Bonds (Redwood Senior Homes and Services), 6% due 11
	3,975	Antioch Area Public Facilities Financing Agency, California, S (Community Facilities District Number 1989-1), 5.70% due 8/01/
	2,820	Arcata, California, Joint Powers Financing Authority, Tax Allo Refunding Bonds (Community Development Project Loan), Series A 8/01/2023 (a)
	2,500	Bakersfield, California, COP, Refunding (Convention Center Exp 5.80% due 4/01/2017 (g)
	2,000	California Health Facilities Financing Authority, Health Facil Bonds (Adventist Health System), Series A, 5% due 3/01/2033
	5,000	California Health Facilities Financing Authority Revenue Bonds RIB, Series 26, 8.37% due 6/01/2022 (e)(j)

	1,490	California Health Facilities Financing Authority, Revenue Refu Valley Hospital Medical Center), Series A, 5.625% due 7/01/201
	4,990	California Infrastructure and Economic Development Bank Revenu Gladstone Institute Project), 5.50% due 10/01/2022
	3,000	California Pollution Control Financing Authority, Solid Waste Bonds (Waste Management Inc. Project), AMT, Series A-2, 5.40%
	6,250	California Pollution Control Financing Authority, Solid Waste Refunding Bonds (Waste Management Inc. Project), AMT, Series B
		California Rural Home Mortgage Finance Authority, S/F Mortgage (Mortgage-Backed Securities Program), AMT (f):
	70	Series A-1, 6.90% due 12/01/2024 (c)
	80	Series B, 6.15% due 6/01/2020 (d)
	4,500	California State Department of Water Resources, Power Supply R Series A, 5.75% due 5/01/2017
	6,000	California State Department of Water Resources Revenue Bonds (Project), 5.25% due 7/01/2022

Portfolio Abbreviations

To simplify the listings of MuniYield California Fund, Inc.'s portfolio holdings in the Schedule of Investments, we have abbreviated the names of many of the securities according to the list below.

AMT	Alternative Minimum Tax (subject to)
COP	Certificates of Participation
GO	General Obligation Bonds
M/F	Multi-Family
RIB	Residual Interest Bonds
RITR	Residual Interest Trust Receipts
S/F	Single-Family

MuniYield California Fund, Inc.

Schedule of Investments as of July 31, 2005 (concluded)

	Face Amount	Municipal Bonds
California		California State, GO, Refunding:
(concluded)	$ 1,635	5.25% due 2/01/2029
	8,000	5.75% due 5/01/2030
	2,785	(Veterans), AMT, Series BJ, 5.70% due 12/01/2032
		California State Public Works Board, Lease Revenue Bonds:
	2,000	(California State University), Series C, 5.40% due 10/01/2
	5,000	(Department of Corrections), Series C, 5.50% due 6/01/2023
	6,645	(Department of Health Services), Series A, 5.75% due 11/01
	17,000	(Various Community College Projects), Series A, 5.625% due

	California State University and Colleges, Housing System Reven
	Bonds (b)(h):
3,000	5.75% due 11/01/2005
3,500	5.80% due 11/01/2005 (k)
3,900	5.90% due 11/01/2005
	California State, Various Purpose, GO:
4,730	5.50% due 4/01/2030
6,850	5.50% due 11/01/2033
5,250	California Statewide Communities Development Authority, COP (J Diablo Health System), 5.125% due 8/15/2022 (g)
	California Statewide Communities Development Authority, Health Bonds (Memorial Health Services), Series A:
3,270	6% due 10/01/2023
3,000	5.50% due 10/01/2033
2,380	California Statewide Communities Development Authority, Water (Pooled Financing Program), Series C, 5.25% due 10/01/2028 (e)
2,000	Chino Basin, California, Regional Financing Authority Revenue Utility Agency Sewer Project), 5.75% due 11/01/2009 (g)(h)
6,270	Coast Community College District, California, Capital Apprecia 5.02%** due 8/01/2021 (g)
2,705	Contra Costa County, California, Public Financing Lease Revenu (Various Capital Facilities), Series A, 5.30% due 8/01/2020 (g
3,750	Cucamonga, California, County Water District, COP, 5.125% due
2,500	Davis, California, Joint Unified School District, Community Fa Special Tax Refunding Bonds, Number 1, 5.50% due 8/15/2021 (g)
3,000	Fremont, California, Union High School District, Santa Clara C 5% due 9/01/2022 (b)
4,650	Golden State Tobacco Securitization Corporation of California, Revenue Bonds, Series A-4, 7.80% due 6/01/2042
5,025	Indio, California, Water Authority, Water Enterprise Revenue B 4/01/2030 (a)
	Industry, California, Urban Development Agency, Tax Allocation Bonds (g):
14,915	(Civic Recreation Industrial), Series 1, 5.50% due 5/01/20
5,000	(Civic-Recreational-Industrial Redevelopment Project No. 1 5/01/2020
5,435	La Mesa-Spring Valley, California, School District, Capital Ap Refunding (Election of 2002), Series B, 5.225%** due 8/01/2028
2,000	Los Angeles, California, COP (Sonnenblick Del Rio West Los Ang 11/01/2031 (a)
10,000	Los Angeles, California, Community College District, GO, Serie 8/01/2011 (g)(h)
	Los Angeles, California, Harbor Department Revenue Bonds, AMT:
4,000	RITR, Series RI-7, 9.785% due 11/01/2026 (g)(j)
2,000	Series B, 6% due 8/01/2015

6,000	Series B, 5.375% due 11/01/2023
7,000	Los Angeles, California, Wastewater System Revenue Bonds, Seri 6/01/2023 (b)
4,500	Los Angeles, California, Wastewater System, Revenue Refunding Series A, 5% due 6/01/2027 (g)
5,000	Los Angeles County, California, Public Works Financing Authori Bonds (Multiple Capital Facilities Project VI), Series A, 5.62
8,705	Modesto, California, Wastewater Treatment Facilities Revenue B 11/01/2007 (g)(h)
7,570	Morgan Hill, California, Unified School District, GO, 5%** due
8,595	Napa Valley, California, Community College District, Capital A (Election of 2002), Series B, 5.16%** due 8/01/2024 (g)
1,750	North City-West, California, School Facilities Financing Autho Tax Refunding Bonds, Series B, 5.75% due 9/01/2015 (e)
	Oakland, California, Alameda County Unified School District, G
3,290	5.50% due 8/01/2017
3,770	5.50% due 8/01/2018
	Oakland, California, Joint Powers Financing Authority, Lease R (Oakland Administration Buildings) (a)(h):
11,395	5.75% due 8/01/2006
2,000	5.90% due 8/01/2006
5,250	Orange County, California, Sanitation District, COP, 5% due 2/
3,000	Oxnard, California, Financing Authority, Wastewater Revenue Bo Sewer and Headworks Projects), Series A, 5.25% due 6/01/2034 (
1,000	Palm Springs, California, Financing Authority, Lease Revenue R (Convention Center Project), Series A, 5.50% due 11/01/2035 (g
1,750	Pleasant Valley, California, School District, Ventura County, due 8/01/2025 (g)(i)
2,255	Pomona, California, Public Financing Authority Revenue Refundi Redevelopment Project), Series A1, 5.75% due 2/01/2034
10,600	Port of Oakland, California, Port Revenue Refunding Bonds, Ser 11/01/2017 (g)
5,807	Port of Oakland, California, RIB, Refunding, AMT, Series 717X, 11/01/2027 (b)(j)
4,315	Rancho Cucamonga, California, Redevelopment Agency, Tax Alloca Bonds (Rancho Redevelopment Project), 5.25% due 9/01/2020 (e)
2,345	Richmond, California, Redevelopment Agency, Tax Allocation, Re (Harbour Redevelopment Project), Series A, 5.50% due 7/01/2018
5,000	Sacramento, California, Municipal Utility District, Electric R Bonds, Series L, 5.125% due 7/01/2022 (g)
	Sacramento County, California, Sanitation District Financing A Refunding Bonds, Series A:

5,695	5.60% due 12/01/2017
6,190	5.75% due 12/01/2018
7,500	6% due 12/01/2020
9,000	5.875% due 12/01/2027
10,100	San Bernardino, California, City Unified School District, GO, 5.875% due 8/01/2009 (b)(h)
3,000	San Bernardino, California, Joint Powers Financing Authority, (Department of Transportation Lease), Series A, 5.50% due 12/0
5,000	San Bernardino, California, Joint Powers Financing Authority, Revenue Refunding Bonds, Series A, 5.75% due 10/01/2015 (e)
3,600	San Diego, California, Unified School District, GO (Election o 5% due 7/01/2029 (e)
1,720	San Francisco, California, City and County Educational Facilit College), Series A, 5.75% due 6/15/2019
1,310	San Francisco, California, City and County Zoo Facilities, GO, 6/15/2019
4,615	San Jose, California, Airport Revenue Bonds, Series D, 5% due
	San Jose-Evergreen, California, Community College District, Ca GO (Election of 2004), Refunding, Series A (g):
10,005	5.12%** due 9/01/2023
5,000	5.33%** due 9/01/2028
5,000	San Juan, California, Unified School District, GO (Election of 8/01/2028 (g)
5,040	San Ysidro, California, School District, Capital Appreciation, Series D, 5.249%** due 8/01/2027 (b)
2,020	Santa Clara, California, Unified School District, GO, 5.50% du
3,500	Santa Clara County, California, Housing Authority, M/F Housing (John Burns Gardens Apartments Project), AMT, Series A, 6% due
4,000	Santa Monica, California, Community College District, GO (Elec Series A, 5% due 5/01/2030 (g)
4,000	Santa Monica, California, Redevelopment Agency, Tax Allocation Recovery Redevelopment Project), 6% due 7/01/2029 (a)
2,500	Sequoia, California, Unified High School District, GO, Refundi 7/01/2028 (e)
2,265	South Bayside, California, Waste Management Authority, Waste S 5.75% due 3/01/2020 (a)
6,750	South Tahoe, California, Joint Powers Financing Authority, Rev (South Tahoe Redevelopment Project Area No. 1), Series A, 5% d
55	Southern California Home Finance Authority, S/F Mortgage Reven Backed Securities Program), AMT, Series A, 6.75% due 9/01/2022
3,235	Taft, California, Public Financing Authority, Lease Revenue Bo Correctional Facility), Series A, 6.05% due 1/01/2017 (g)

	1,310	Torrance, California, Hospital Revenue Refunding Bonds (Torran Center), Series A, 6% due 6/01/2022
	1,000	Ventura, California, Unified School District, GO (Election of 5.125% due 8/01/2034 (e)
	3,990	Vernon, California, Electric System Revenue Bonds (Malburg Gen Project), 5.50% due 4/01/2008 (h)
	5,000	Vista, California, Joint Powers Financing Authority, Lease Rev 5.625% due 5/01/2016 (g)
	5,055	West Contra Costa, California, Unified School District, Capita (Election of 2002), Series C, 4.849%** due 8/01/2027 (b)
	5,605	Whittier, California, Union High School District, GO (Election 5% due 8/01/2033 (e)
Puerto Rico - 4.2%	2,140	Puerto Rico Commonwealth Highway and Transportation Authority, Series Y, 5.50% due 7/01/2006 (g)(h)
		Puerto Rico Commonwealth, Infrastructure Financing Authority, Appreciation Revenue Bonds, Series A:
	9,750	4.66%** due 7/01/2033 (b)
	9,750	4.77%** due 7/01/2043 (a)
	6,500	Puerto Rico Electric Power Authority, Power Revenue Bonds, Ser 7/01/2029
U.S. Virgin Islands - 1.0%	3,000	Virgin Islands Government Refinery Facilities, Revenue Refundi Coker Project), AMT, 6.50% due 7/01/2021
		Total Municipal Bonds (Cost - $425,639) - 140.2%

Shares Held	Short-Term Securities
2,801	CMA California Municipal Money Fund (l)
	Total Short-Term Securities (Cost - $2,801) - 0.9%
	Total Investments (Cost - $428,440*) - 141.1%
	Other Assets Less Liabilities - 2.5%
	Preferred Stock, at Redemption Value - (43.6%)
	Net Assets Applicable to Common Stock - 100.0%

* The cost and unrealized appreciation (depreciation) of investments as of July 31, 2005, as computed for federal income tax purposes, were as follows:

	(in Thousands)
Aggregate cost	$ 428,440
Gross unrealized appreciation	$ 24,484

Gross unrealized depreciation	(249)
Net unrealized appreciation	$ 24,235

** Represents a zero coupon bond; the interest rate shown reflects the effective yield at the time of purchase by the Fund.

(a) AMBAC Insured.

(b) FGIC Insured.

(c) FHLMC Collateralized.

(d) FNMA/GNMA Collateralized.

(e) FSA Insured.

(f) GNMA Collateralized.

(g) MBIA Insured.

(h) Prerefunded.

(i) Escrowed to maturity.

(j) The rate disclosed is that currently in effect. This rate changes periodically and inversely based upon prevailing market rates.

(k) All or portion of security held as collateral in connection with open financial futures contracts.

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

(in Thousands)

Affiliate	Net Activity	Dividend Income
CMA California Municipal Money Fund	1,942	$152

Financial futures contracts purchased as of July 31, 2005 were as follows:

(in Thousands)

Number of Contracts	Issue	Expiration Date	Face Value	Unrealized Depreciation
100	10-Year U.S. Treasury Bond	September 2005	$11,328	$(203)

Item 2 - Controls and Procedures

2(a) - The registrant's certifying officers have reasonably designed such disclosure controls and procedures to ensure material information relating to the registrant is made known to us by others particularly during the period in which this report is being prepared. The registrant's certifying officers have determined that the registrant's disclosure controls and procedures are effective based on our evaluation of these controls and procedures as of a date within 90 days prior to the filing date of this report.

2(b) - There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Act (17 CFR 270.30a-3(d)) that occurred during the last fiscal quarter of the period covered by this report that has materially affected, or is 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.

MuniYield California Fund, Inc.

By: /s/ Robert C. Doll, Jr.

Robert C. Doll, Jr.,
Chief Executive Officer
MuniYield California Fund, Inc.

Date: September 23, 2005

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/ Robert C. Doll, Jr.

Robert C. Doll, Jr.,
Chief Executive Officer
MuniYield California Fund, Inc.

Date: September 23, 2005

By: /s/ Donald C. Burke

Donald C. Burke,
Chief Financial Officer
MuniYield California Fund, Inc.

Date: September 23, 2005