

Nuveen California Municipal Value Fund 2
Form N-Q
July 28, 2017

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM N-Q

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT
INVESTMENT COMPANY**

Investment Company Act file number 811-22272

Nuveen California Municipal Value Fund 2

(Exact name of registrant as specified in charter)

Nuveen Investments

333 West Wacker Drive, Chicago, Illinois 60606

(Address of principal executive offices) (Zip code)

Gifford R. Zimmerman

Vice President and Secretary

333 West Wacker Drive, Chicago, Illinois 60606

(Name and address of agent for service)

Registrant's telephone number, including area code: 312-917-7700

Date of fiscal year end: February 28

Date of reporting period: May 31, 2017

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct

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comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Schedule of Investments

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NCB Nuveen California Municipal Value Fund 2 Portfolio of Investments May 31, 2017 (Unaudited)				
Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 95.7% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 95.7% (100.0% of Total Investments)			
	Consumer Staples – 6.8% (7.1% of Total Investments)			
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1:			
\$ 1,070	5.000%, 6/01/33	6/17 at 100.00	B+	\$1,075,243
910	5.750%, 6/01/47	6/17 at 100.00	B3	916,734
	Silicon Valley Tobacco Securitization Authority, California, Tobacco Settlement Asset-Backed Bonds, Santa Clara County Tobacco Securitization Corporation, Series 2007A, 0.000%, 6/01/41	6/17 at 26.07	N/R	226,200
1,000				
1,500	Tobacco Securitization Authority of Northern California, Tobacco Settlement Asset-Backed Bonds, Series 2005A-1, 5.500%, 6/01/45	8/17 at 100.00	B-	1,496,175
4,480	Total Consumer Staples			3,714,352
	Education and Civic Organizations – 2.8% (3.0% of Total Investments)			
865	California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2009, 5.500%, 11/01/39	11/19 at 100.00	A2	937,556
100	California Municipal Finance Authority, Charter School Revenue Bonds, Rocketship Education-Multiple Projects, Series 2014A, 7.250%, 6/01/43	6/22 at 102.00	N/R	113,889
35	California School Finance Authority, School Facility Revenue Bonds, Alliance for College-Ready Public Schools Project, Series 2016A, 144A, 5.000%, 7/01/46	7/25 at 100.00	BBB	37,585
260	California School Finance Authority, School Facility Revenue Bonds, Alliance for College-Ready Public Schools Project, Series 2016C, 5.250%, 7/01/52	7/25 at 101.00	BBB	283,494
150	California Statewide Communities Development Authority, School Facility Revenue Bonds, Alliance College-Ready Public Schools, Series 2011A, 7.000%, 7/01/46	7/21 at 100.00	BBB-	169,769
1,410	Total Education and Civic Organizations			1,542,293
	Health Care – 7.1% (7.4% of Total Investments)			
1,000	California Health Facilities Financing Authority, Revenue Bonds, Children's Hospital of Orange County, Series 2009A, 6.500%, 11/01/38	11/19 at 100.00	A	1,127,650
70	California Health Facilities Financing Authority, Revenue Bonds, Lucile Salter Packard Children's Hospital, Series 2014A, 5.000%, 8/15/43	8/24 at 100.00	AA	78,719
75	California Health Facilities Financing Authority, Revenue Bonds, Providence Health & Services, Refunding Series 2014A, 5.000%,	10/24 at 100.00	AA-	86,512

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	10/01/38		
150	California Health Facilities Financing Authority, Revenue Bonds, Providence Health & Services, Series 2014B, 5.000%, 10/01/44	10/24 at 100.00AA-	168,351
20	California Municipal Finance Authority, Revenue Bonds, Eisenhower Medical Center, Series 2017A, 5.000%, 7/01/42 (WI/DD, Settling 7/06/17)	7/27 at 100.00 BBB	22,690
100	California Municipal Finance Authority, Revenue Bonds, NorthBay Healthcare Group, Series 2017A, 5.250%, 11/01/41	11/26 at 100.00BBB-	113,675
150	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2014A, 5.250%, 12/01/34	12/24 at 100.00BB+	166,038

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Health Care (continued)			
\$ 785	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2016A, 144A, 5.250%, 12/01/56	6/26 at 100.00	BB+	\$858,429
725	Palomar Pomerado Health Care District, California, Certificates of Participation, Series 2010, 6.000%, 11/01/41	11/20 at 100.00	BBB-	791,243
380	San Buenaventura, California, Revenue Bonds, Community Memorial Health System, Series 2011, 7.500%, 12/01/41	12/21 at 100.00	BB+	447,279
3,455	Total Health Care			3,860,586
	Housing/Multifamily – 1.2% (1.3% of Total Investments)			
220	California Municipal Finance Authority, Mobile Home Park Revenue Bonds, Caritas Projects Series 2010A, 6.400%, 8/15/45	8/20 at 100.00	BBB	239,816
70	California Municipal Finance Authority, Mobile Home Park Revenue Bonds, Caritas Projects Series 2012A, 5.500%, 8/15/47	8/22 at 100.00	BBB	77,589
250	California Municipal Finance Authority, Mobile Home Park Revenue Bonds, Caritas Projects Series 2012B, 7.250%, 8/15/47	8/22 at 100.00	A1	286,103
	California Municipal Finance Authority, Mobile Home Park Senior Revenue Bonds, Caritas Affordable Housing, Inc. Projects, Series 2014A:			
15	5.250%, 8/15/39	8/24 at 100.00	BBB	16,616
40	5.250%, 8/15/49	8/24 at 100.00	BBB	44,043
595	Total Housing/Multifamily			664,167
	Long-Term Care – 2.1% (2.2% of Total Investments)			
1,000	California Health Facilities Financing Authority, Insured Revenue Bonds, Community Program for Persons with Developmental Disabilities, Series 2011A, 6.250%, 2/01/26	2/21 at 100.00	AA-	1,163,820
	Tax Obligation/General – 13.6% (14.2% of Total Investments)			
2,100	Carlsbad Unified School District, San Diego County, California, General Obligation Bonds, Series 2009B, 0.000%, 5/01/34 (4)	5/24 at 100.00	AA	2,313,360
195	Oceanside Unified School District, San Diego County, California, General Obligation Bonds, Election 2008 Series 2010B, 0.000%, 8/01/49 – AGM Insured	8/20 at 13.60	AA	24,857
1,000	Rio Hondo Community College District, California, General Obligation Bonds, Election of 2004, Series 2010C, 0.000%, 8/01/42 (4)	8/34 at 100.00	AA	1,004,450
840	San Benito High School District, San Benito and Santa Clara Counties, California, General Obligation Bonds, 2016 Election Series 2017, 5.250%, 8/01/46	8/27 at 100.00	Aa3	1,024,287
10,000	San Marcos Unified School District, San Diego County, California, General Obligation Bonds, 2010 Election, Series 2012B, 0.000%, 8/01/51	No Opt. Call	AA-	2,519,300
500	Western Riverside Water & Wastewater Financing Authority, California, Revenue Bonds, Western Municipal Water District, Series 2009, 5.625%, 9/01/39 – AGC Insured	8/19 at 100.00	AA+	542,625
14,635	Total Tax Obligation/General			7,428,879
	Tax Obligation/Limited – 17.9% (18.7% of Total Investments)			
1,965		4/19 at 100.00	A+	2,132,045

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	California State Public Works Board, Lease Revenue Bonds, Department of Education Riverside Campus Project, Series 2009B, 5.750%, 4/01/23		
160	Fontana Redevelopment Agency, San Bernardino County, California, Tax Allocation Bonds, Jurupa Hills Redevelopment Project, Refunding Series 1997A, 5.500%, 10/01/27	10/17 at 100.00 A	162,318
180	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Refunding Series 2015A, 5.000%, 6/01/40	6/25 at 100.00 A+	205,711

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Tax Obligation/Limited (continued)			
\$ 425	Lancaster Redevelopment Agency, California, Tax Allocation Bonds, Combined Redevelopment Project Areas Housing Programs, Series 2009, 6.875%, 8/01/39	8/19 at 100.00	BBB	\$479,047
1,000	Los Angeles County Metropolitan Transportation Authority, California, Measure R Sales Tax Revenue Bonds, Senior Series 2016A, 5.000%, 6/01/38	6/26 at 100.00	AAA	1,183,560
1,150	Los Angeles County Metropolitan Transportation Authority, California, Proposition C Sales Tax Revenue Bonds, Senior Lien Series 2017A, 5.000%, 7/01/39	7/27 at 100.00	AA+	1,376,481
80	National City Community Development Commission, California, Tax Allocation Bonds, National City Redevelopment Project, Series 2011, 6.500%, 8/01/24	8/21 at 100.00	A	96,311
30	Novato Redevelopment Agency, California, Tax Allocation Bonds, Hamilton Field Redevelopment Project, Series 2011, 6.750%, 9/01/40	9/21 at 100.00	BBB+	35,428
35	Patterson Public Finance Authority, California, Revenue Bonds, Community Facilities District 2001-1, Subordinate Lien Series 2013B, 5.875%, 9/01/39	9/23 at 100.00	N/R	38,480
210	Patterson Public Financing Authority, California, Revenue Bonds, Community Facilities District 2001-1, Senior Series 2013A: 5.250%, 9/01/30	9/23 at 100.00	N/R	229,022
190	5.750%, 9/01/39	9/23 at 100.00	N/R	207,372
15	Riverside County Redevelopment Agency, California, Tax Allocation Bonds, Jurupa Valley Project Area, Series 2011B, 6.500%, 10/01/25	10/21 at 100.00	A	17,891
20	San Clemente, California, Special Tax Revenue Bonds, Community Facilities District 2006-1 Marblehead Coastal, Series 2015, 5.000%, 9/01/40	9/25 at 100.00	N/R	21,848
1,000	San Francisco City and County Redevelopment Financing Authority, California, Tax Allocation Revenue Bonds, San Francisco Redevelopment Projects, Series 2009B, 6.625%, 8/01/39	8/19 at 100.00	AA-	1,110,930
1,500	San Francisco City and County, California, Certificates of Participation, Multiple Capital Improvement Projects, Series 2009A, 5.250%, 4/01/31	4/19 at 100.00	AA	1,607,685
585	San Jose Redevelopment Agency, California, Tax Allocation Bonds, Merged Area Redevelopment Project, Refunding Series 2006D, 5.000%, 8/01/22 – AMBAC Insured	8/17 at 100.00	A+	588,966
125	San Jose Redevelopment Agency, California, Tax Allocation Bonds, Merged Area Redevelopment Project, Series 2006C, 5.000%, 8/01/25 – NPMFG Insured	8/17 at 100.00	AA-	125,845
25	Signal Hill Redevelopment Agency, California, Project 1 Tax Allocation Bonds, Series 2011, 7.000%, 10/01/26	4/21 at 100.00	N/R	28,741
100	Temecula Public Financing Authority, California, Special Tax Bonds, Community Facilities District 16-01, Series 2017, 144A, 5.750%, 9/01/32	9/27 at 100.00	N/R	103,353
40		9/21 at 100.00	A-	46,896

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8,835	Yorba Linda Redevelopment Agency, Orange County, California, Tax Allocation Revenue Bonds, Yorba Linda Redevelopment Project, Subordinate Lien Series 2011A, 6.000%, 9/01/26 Total Tax Obligation/Limited Transportation – 9.0% (9.4% of Total Investments)				9,797,930
395	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Bonds, Refunding Junior Lien Series 2013C, 6.500%, 1/15/43	1/24 at 100.00	BB+		474,695
865	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Bonds, Refunding Series 2013A: 5.750%, 1/15/46	1/24 at 100.00	BBB-		998,841
865	6.000%, 1/15/53	1/24 at 100.00	BBB-		998,314
305	Port of Oakland, California, Revenue Bonds, Refunding Series 2012P, 5.000%, 5/01/31 (Alternative Minimum Tax)	5/22 at 100.00	A+		341,716

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Transportation (continued)			
\$ 1,820	San Francisco Airports Commission, California, Revenue Bonds, San Francisco International Airport, Second Governmental Purpose Series 2016C, 5.000%, 5/01/46	5/26 at 100.00	A+	\$ 2,101,354
4,250	Total Transportation			4,914,920
	U.S. Guaranteed – 20.1% (21.0% of Total Investments) (5)			
1,000	ABAG Finance Authority for Non-Profit Corporations, California, Cal-Mortgage Insured Health Facility Revenue Bonds, Saint Rose Hospital, Series 2009A, 6.000%, 5/15/29 (Pre-refunded 5/15/19)	5/19 at 100.00	AA- (5)	1,099,100
	California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2009:			
55	5.500%, 11/01/39 (Pre-refunded 11/01/19)	11/19 at 100.00	N/R (5)	61,038
80	5.500%, 11/01/39 (Pre-refunded 11/01/19)	11/19 at 100.00	A2 (5)	88,783
	California Health Facilities Financing Authority, Revenue Bonds, Catholic Healthcare West, Series 2009A, 6.000%, 7/01/39 (Pre-refunded 7/01/19)	7/19 at 100.00	A (5)	2,100,374
1,900	California State Public Works Board, Lease Revenue Bonds, Various Capital Projects, Series 2010A-1, 6.000%, 3/01/35 (Pre-refunded 3/01/20)	3/20 at 100.00	A+ (5)	568,760
500	California Statewide Communities Development Authority, Revenue Bonds, Adventist Health System West, Series 2007B, 5.000%, 3/01/37 – AGC Insured (Pre-refunded 5/23/18)	5/18 at 100.00	AA (5)	706,642
680	Lancaster Redevelopment Agency, California, Tax Allocation Bonds, Combined Redevelopment Project Areas Housing Programs, Series 2009, 6.875%, 8/01/39 (Pre-refunded 8/01/19)	8/19 at 100.00	N/R (5)	648,520
575	Oakland, California, General Obligation Bonds, Measure DD Series 2009B, 5.250%, 1/15/29 (Pre-refunded 1/15/19)	1/19 at 100.00	Aa2 (5)	1,199,206
1,120	Oceanside Unified School District, San Diego County, California, General Obligation Bonds, Election 2008 Series 2010B, 0.000%, 8/01/49 – AGM Insured (Pre-refunded 8/01/20)	8/20 at 13.60	AA (5)	499,558
3,805	Orange County Sanitation District, California, Certificates of Participation, Tender Option Bond Trust 2017-XF2452, 15.814%, 2/01/35 (Pre-refunded 2/01/19) (IF) (6)	2/19 at 100.00	AAA	2,228,870
1,750	Palomar Pomerado Health Care District, California, Certificates of Participation, Series 2009, 6.625%, 11/01/29 (Pre-refunded 11/01/19)	11/19 at 100.00	Ba1 (5)	284,190
250	Pittsburg Redevelopment Agency, California, Tax Allocation Bonds, Los Medanos Community Development Project, Refunding Series 2008A, 6.500%, 9/01/28 (Pre-refunded 9/01/18)	9/18 at 100.00	N/R (5)	257,134
240	Rancho Santa Fe CSD Financing Authority, California, Revenue Bonds, Superior Lien Series 2011A, 5.750%, 9/01/30 (Pre-refunded 9/01/21)	9/21 at 100.00	A- (5)	113,319
95	San Francisco Redevelopment Finance Authority, California, Tax Allocation Revenue Bonds, Mission Bay North Redevelopment Project, Series 2011C, 6.750%, 8/01/41 (Pre-refunded 2/01/21)	2/21 at 100.00	A- (5)	18,096
15	San Francisco Redevelopment Financing Authority, California, Tax Allocation Revenue Bonds, Mission Bay South			

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Redevelopment Project, Series 2011D:				
15	7.000%, 8/01/33 (Pre-refunded 2/01/21)	2/21 at 100.00	BBB+ (5)	18,225
15	7.000%, 8/01/41 (Pre-refunded 2/01/21)	2/21 at 100.00	BBB+ (5)	18,225
1,000	Tuolumne Wind Project Authority, California, Revenue Bonds, Tuolumne Company Project, Series 2009A, 5.625%, 1/01/29 (Pre-refunded 1/01/19)	1/19 at 100.00	AA- (5)	1,074,930
13,095	Total U.S. Guaranteed			10,984,970

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Utilities – 11.4% (11.9% of Total Investments)			
\$ 415	Los Angeles Department of Water and Power, California, Power System Revenue Bonds, Series 2016B, 5.000%, 7/01/37	1/26 at 100.00	Aa2	\$487,683
1,245	Los Angeles Department of Water and Power, California, Power System Revenue Bonds, Series 2017A, 5.000%, 7/01/47	1/27 at 100.00	Aa2	1,466,921
1,000	M-S-R Energy Authority, California, Gas Revenue Bonds, Citigroup Prepay Contracts, Series 2009C, 6.500%, 11/01/39	No Opt. Call	A	1,435,660
2,400	Southern California Public Power Authority, Natural Gas Project 1 Revenue Bonds, Series 2007A, 5.250%, 11/01/24	No Opt. Call	A	2,856,744
5,060	Total Utilities			6,247,008
	Water and Sewer – 3.7% (3.8% of Total Investments)			
1,075	California Pollution Control Financing Authority, Water Furnishing Revenue Bonds, Poseidon Resources Channelside LP Desalination Project, Series 2012, 144A, 5.000%, 11/21/45 (Alternative Minimum Tax)	7/22 at 100.00	Baa3	1,151,174
375	Los Angeles, California, Wastewater System Revenue Bonds, Green Bonds, Subordinate Lien Series 2017A, 5.250%, 6/01/47	6/27 at 100.00	AA	457,579
335	San Diego Public Facilities Financing Authority, California, Water Utility Revenue Bonds, Refunding Subordinate Lien Series 2016B, 5.000%, 8/01/32	8/26 at 100.00	Aa3	404,439
1,785	Total Water and Sewer			2,013,192
\$ 58,600	Total Long-Term Investments (cost \$45,741,129)			52,332,117
	Other Assets Less Liabilities – 4.3%			2,364,758
	Net Asset Applicable to Common Shares – 100%			\$ 54,696,875

Fair Value Measurements

Fair value is defined as the price that would be received upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Prices are determined using significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				
Municipal Bonds	\$ —	\$52,332,117	\$ —	\$52,332,117

Income Tax Information

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to timing differences in recognizing taxable market discount, timing differences in recognizing certain gains and losses on investment transactions and the treatment of investments in inverse floating rate securities reflected as financing transactions, if any. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

As of May 31, 2017, the cost of investments was \$45,532,026.

Gross unrealized appreciation and gross unrealized depreciation of investments as of May 31, 2017, were as follows:

Gross unrealized:

Appreciation	\$6,934,451
Depreciation	(134,360)
Net unrealized appreciation (depreciation) of investments	\$6,800,091

- (1) All percentages shown in the Portfolio of Investments are based on net assets applicable to common shares unless otherwise noted.
- (2) Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption. There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
- (3) For financial reporting purposes, the ratings disclosed are the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. This treatment of split-rated securities may differ from that used for other purposes, such as for Fund investment policies. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.
- (4) Step-up coupon. The rate shown is the coupon as of the end of the reporting period.
- (5) Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities, which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
- (6) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (IF) Inverse floating rate investment.
- 144A Investment is exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These investments may only be resold in transactions exempt from registration, which are normally those transactions with qualified institutional buyers.
- (WI/DD) Investment, or portion of investment, purchased on a when-issued or delayed delivery basis.

Item 2. Controls and Procedures.

- 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) (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934 (17 CFR 240.13a-15(b) or 240.15d-15(b)).
- 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 (17 CFR 270.30a-3(d))) 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.

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)), exactly as set forth below: See EX-99 CERT attached hereto.

SIGNATURES

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.

(Registrant) Nuveen California Municipal Value Fund 2

By (Signature and Title) /s/ Gifford R. Zimmerman

Gifford R. Zimmerman
Vice President and Secretary

Date: July 28, 2017

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 (Signature and Title) /s/ Cedric H. Antosiewicz

Cedric H. Antosiewicz
Chief Administrative Officer (principal executive officer)

Date: July 28, 2017

By (Signature and Title) /s/ Stephen D. Foy

Stephen D. Foy
Vice President and Controller (principal financial officer)

Date: July 28, 2017