

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form N-Q
July 27, 2007

**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 811-7492

Nuveen Insured California Premium Income Municipal Fund 2, Inc.

(Exact name of registrant as specified in charter)

Nuveen Investments

333 West Wacker Drive, Chicago, Illinois 60606

(Address of principal executive offices) (Zip code)

Kevin J. McCarthy 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: 8/31

Date of reporting period: 5/31/07

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 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

Portfolio of Investments (Unaudited)

Nuveen Insured California Premium Income Municipal Fund 2, Inc. (NCL)

May 31, 2007

Principal

Amount (000) Description (1)

Optional Ca

Provisions (2)

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	Education and Civic Organizations □ 5.7% (3.8% of Total Investments)		
\$	620	California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2000, 5.875%, 11/01/20 □ MBIA Insured	11/10 at 100.0
	2,125	California Educational Facilities Authority, Student Loan Revenue Bonds, Cal Loan Program, Series 2001A, 5.400%, 3/01/21 □ MBIA Insured (Alternative Minimum Tax)	3/08 at 102.0
	1,500	California State University, Systemwide Revenue Bonds, Series 2005A, 5.000%, 11/01/25 □ AMBAC Insured	5/15 at 100.0
	6,000	University of California, Revenue Bonds, Multi-Purpose Projects, Series 2003A, 5.000%, 5/15/27 □ AMBAC Insured	5/13 at 100.0

10,245 Total Education and Civic Organizations

	Health Care □ 7.8% (5.2% of Total Investments)		
	7,500	California Statewide Community Development Authority, Revenue Bonds, Sutter Health, Series 2007C, 5.000%, 11/15/38 □ AMBAC Insured	5/17 at 100.0
	5,000	The Regents of the University of California, Medical Center Pooled Revenue Bonds, Series 2007A, 4.500%, 5/15/37 □ MBIA Insured	5/15 at 101.0
	1,755	University of California, Hospital Revenue Bonds, UCLA Medical Center, Series 2004A, 5.500%, 5/15/18 □ AMBAC Insured	5/12 at 101.0

14,255 Total Health Care

	Housing/Single Family □ 2.3% (1.5% of Total Investments)		
	440	California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006H, 5.750%, 8/01/30 □ FGIC Insured (Alternative Minimum Tax)	2/16 at 100.0
	2,500	California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006K, 5.500%, 2/01/42 □ AMBAC Insured (Alternative Minimum Tax)	2/16 at 100.0
	1,100	California Housing Finance Agency, Single Family Mortgage Bonds, Series 1997C-2-II, 5.625%, 8/01/20 □ MBIA Insured (Alternative Minimum Tax)	8/07 at 101.5

4,040 Total Housing/Single Family

	Tax Obligation/General □ 23.0% (15.3% of Total Investments)		
	1,460	ABC Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2000B, 5.750%, 8/01/16 □ FGIC Insured	8/10 at 101.0
	1,425	Bassett Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2006B, 5.250%, 8/01/30 □ FGIC Insured	8/16 at 100.0
	4,400	California, General Obligation Bonds, Series 2003, 5.000%, 2/01/31 □ MBIA Insured	2/13 at 100.0
	3,000	California, General Obligation Veterans Welfare Bonds, Series 2001BZ, 5.375%, 12/01/24 □ MBIA Insured (Alternative Minimum Tax)	6/07 at 101.0
	1,910	Fresno Unified School District, Fresno County, California, General Obligation Bonds, Series 2002A, 6.000%, 8/01/26 □ MBIA Insured	No Opt. Ca
	1,255	Los Angeles Community College District, Los Angeles County, California, General Obligation Bonds, Series 2005A, 5.000%, 8/01/24 □ FSA Insured	8/15 at 100.0
	3,310	Los Angeles Unified School District, California, General Obligation Bonds, Series 2006B, 4.750%, 7/01/25 □ FGIC Insured (UB)	7/16 at 100.0
	4,000	Los Angeles Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2007A, 4.500%, 7/01/24 □ FSA Insured	7/17 at 100.0

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Los Rios Community College District, Sacramento, El Dorado and Yolo Counties, California,
General Obligation Bonds, Series 2006C:

2,110	5.000%, 8/01/21 □ FSA Insured	8/14 at 102.0
3,250	5.000%, 8/01/22 □ FSA Insured	8/14 at 102.0
3,395	5.000%, 8/01/23 □ FSA Insured	8/14 at 102.0
1,270	Merced City School District, Merced County, California, General Obligation Bonds, Series 2004, 5.000%, 8/01/22 □ FGIC Insured	8/13 at 100.0
305	Roseville Joint Union High School District, Placer County, California, General Obligation Bonds, Series 2006B, 5.000%, 8/01/27 □ FGIC Insured	8/15 at 100.0
2,500	Sacramento City Unified School District, Sacramento County, California, General Obligation Bonds, Series 2005, 5.000%, 7/01/27 □ MBIA Insured	7/15 at 100.0
1,125	San Diego Unified School District, California, General Obligation Bonds, Election of 1998, Series 1999A, 0.000%, 7/01/21 □ FGIC Insured	No Opt. Ca
1,575	San Diego Unified School District, San Diego County, California, General Obligation Bonds, Series 2006G-1, 4.500%, 7/01/29 □ FSA Insured (UB)	7/16 at 101.0
2,000	San Francisco Community College District, California, General Obligation Bonds, Series 2002A, 5.000%, 6/15/26 □ FGIC Insured	6/10 at 102.0
1,000	San Ramon Valley Unified School District, Contra Costa County, California, General Obligation Bonds, Series 2004, 5.000%, 8/01/24 □ FSA Insured	8/14 at 100.0
2,445	Washington Unified School District, Yolo County, California, General Obligation Bonds, Series 2004A, 5.000%, 8/01/21 □ FGIC Insured	8/13 at 100.0

41,735 Total Tax Obligation/General

Tax Obligation/Limited □ 37.4% (24.8% of Total Investments)

Anaheim Public Finance Authority, California, Subordinate Lease Revenue Bonds, Public
Improvement Project, Series 1997C:

5,130	0.000%, 9/01/18 □ FSA Insured	No Opt. Ca
8,000	0.000%, 9/01/21 □ FSA Insured	No Opt. Ca
	California Infrastructure Economic Development Bank, Revenue Bonds, North County Center for Self-Sufficiency Corporation, Series 2004:	
1,535	5.000%, 12/01/20 □ AMBAC Insured	12/13 at 100.0
1,780	5.000%, 12/01/23 □ AMBAC Insured	12/13 at 100.0
3,725	California State Public Works Board, Lease Revenue Bonds, Department of Corrections, Series 2005J, 5.000%, 1/01/17 □ AMBAC Insured	1/16 at 100.0
380	Capistrano Unified School District, Orange County, California, Special Tax Bonds, Community Facilities District, Series 2005, 5.000%, 9/01/24 □ FGIC Insured	9/15 at 100.0
1,110	Chino Redevelopment Agency, California, Merged Chino Redevelopment Project Area Tax Allocation Bonds, Series 2006, 5.000%, 9/01/38 □ AMBAC Insured (UB)	9/16 at 101.0
4,000	Contra Costa County, California, Certificates of Participation Refunding, Merrithew Memorial Hospital Replacement, Series 1997, 5.500%, 11/01/22 □ MBIA Insured	11/07 at 102.0
6,000	El Monte, California, Senior Lien Certificates of Participation, Department of Public Services Facility Phase II, Series 2001, 5.000%, 1/01/21 □ AMBAC Insured	1/11 at 100.0
8,280	Fontana Public Financing Authority, California, Tax Allocation Revenue Bonds, North Fontana Redevelopment Project, Series 2005A, 5.000%, 10/01/32 □ AMBAC Insured	10/15 at 100.0
3,000	Galt Schools Joint Powers Authority, Sacramento County, California, Revenue Refunding Bonds, High School and Elementary School Facilities, Series 1997A, 5.875%, 11/01/24 □ MBIA Insured	11/07 at 102.0
1,810	Kern County Board of Education, California, Certificates of Participation Refunding, Series	5/08 at 102.0

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	1998A, 5.200%, 5/01/28 □ MBIA Insured	
5,000	La Quinta Redevelopment Agency, California, Tax Allocation Refunding Bonds, Redevelopment Project Area 1, Series 1998, 5.200%, 9/01/28 □ AMBAC Insured	9/07 at 102.0
685	Los Angeles Community Redevelopment Agency, California, Lease Revenue Bonds, Manchester Social Services Project, Series 2005, 5.000%, 9/01/37 □ AMBAC Insured	9/15 at 100.0
1,000	Los Angeles Community Redevelopment Agency, California, Tax Allocation Bonds, Bunker Hill Project, Series 2004A, 5.000%, 12/01/20 □ FSA Insured	12/14 at 100.0
1,250	Los Angeles County Metropolitan Transportation Authority, California, Proposition A First Tier Senior Sales Tax Revenue Bonds, Series 2003B, 5.000%, 7/01/19 □ MBIA Insured	7/13 at 100.0
4,000	Los Angeles, California, Certificates of Participation, Municipal Improvement Corporation, Series 2003AW, 5.000%, 6/01/33 □ AMBAC Insured	6/13 at 100.0
4,140	Plumas County, California, Certificates of Participation, Capital Improvement Program, Series 2003A, 5.000%, 6/01/28 □ AMBAC Insured	6/13 at 101.0
390	Poway Redevelopment Agency, California, Tax Allocation Refunding Bonds, Paguay Redevelopment Project, Series 2000, 5.750%, 6/15/33 □ MBIA Insured	12/10 at 102.0
325	Rialto Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005A, 5.000%, 9/01/35 □ XLCA Insured	9/15 at 100.0
1,000	Rocklin Unified School District, Placer County, California, Special Tax Bonds, Community Facilities District 1, Series 2004, 5.000%, 9/01/25 □ MBIA Insured	9/13 at 100.0
405	Roseville, California, Certificates of Participation, Public Facilities, Series 2003A, 5.000%, 8/01/25 □ AMBAC Insured	8/13 at 100.0
5,000	San Bernardino Joint Powers Financing Authority, California, Certificates of Participation Refunding, Police Station Financing Project, Series 1999, 5.500%, 9/01/20 □ MBIA Insured	9/09 at 102.0
5,510	Sweetwater Union High School District Public Financing Authority, California, Special Tax Revenue Bonds, Series 2005A, 5.000%, 9/01/28 □ FSA Insured	9/15 at 100.0

73,455 Total Tax Obligation/Limited

	Transportation □ 7.0% (4.7% of Total Investments)	
6,500	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Refunding Bonds, Series 1999, 0.000%, 1/15/18 □ MBIA Insured	1/10 at 65.3
4,000	Orange County Transportation Authority, California, Toll Road Revenue Bonds, 91 Express Lanes Project, Series 2003A, 5.000%, 8/15/18 □ AMBAC Insured	8/13 at 100.0
5,000	San Francisco Airports Commission, California, Revenue Refunding Bonds, San Francisco International Airport, Second Series 2001, Issue 27A, 5.250%, 5/01/31 □ MBIA Insured (Alternative Minimum Tax)	5/11 at 100.0

15,500 Total Transportation

	U.S. Guaranteed □ 38.8% (25.7% of Total Investments) (4)	
1,380	California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2000, 5.875%, 11/01/20 (Pre-refunded 11/01/10) □ MBIA Insured	11/10 at 100.0
1,450	California Health Facilities Financing Authority, Insured Health Facility Revenue Refunding Bonds, Mark Twain St. Joseph's Healthcare Corporation, Series 1996A, 6.000%, 7/01/19 (Pre-refunded 7/01/07) □ MBIA Insured	7/07 at 101.0
1,295	California Infrastructure Economic Development Bank, Revenue Bonds, Asian Art Museum of San Francisco, Series 2000: 5.500%, 6/01/19 (Pre-refunded 6/01/10) □ MBIA Insured	6/10 at 101.0

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1,000	5.500%, 6/01/20 (Pre-refunded 6/01/10) □ MBIA Insured	6/10 at 101.0
3,450	California State Public Works Board, Lease Revenue Bonds, Department of Health Services, Series 1999A, 5.750%, 11/01/24 (Pre-refunded 11/01/09) □ MBIA Insured	11/09 at 101.0
2,250	California State, General Obligation Bonds, Series 2004, 5.000%, 4/01/31 (Pre-refunded 4/01/14) □ AMBAC Insured	4/14 at 100.0
2,500	California, Various Purpose General Obligation Bonds, Series 1999, 5.500%, 9/01/24 (Pre-refunded 9/01/09) □ FSA Insured	9/09 at 101.0
	California, Various Purpose General Obligation Bonds, Series 2000:	
7,995	5.750%, 3/01/22 (Pre-refunded 3/01/10) □ MBIA Insured	3/10 at 101.0
1,900	5.750%, 3/01/27 (Pre-refunded 3/01/10) □ MBIA Insured	3/10 at 101.0
2,425	Central Unified School District, Fresno County, California, General Obligation Bonds, Series 1993, 5.625%, 3/01/18 □ AMBAC Insured (ETM)	9/07 at 100.0
3,000	Escondido Union High School District, San Diego County, California, General Obligation Bonds, Series 1996, 5.700%, 11/01/10 □ MBIA Insured (ETM)	11/07 at 101.0
	Fresno Unified School District, Fresno County, California, General Obligation Bonds, Series 2001F:	
1,065	5.125%, 8/01/21 □ FSA Insured (ETM)	8/09 at 102.0
1,160	5.125%, 8/01/22 □ FSA Insured (ETM)	8/09 at 102.0
1,220	5.125%, 8/01/23 □ FSA Insured (ETM)	8/09 at 102.0
1,500	Hacienda La Puente Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2000A, 5.250%, 8/01/25 (Pre-refunded 8/01/10) □ MBIA Insured	8/10 at 101.0
2,665	Kern Community College District, California, General Obligation Bonds, Series 2003A, 5.000%, 11/01/21 (Pre-refunded 11/01/13) □ FGIC Insured	11/13 at 100.0
3,190	Kern County Board of Education, California, Certificates of Participation Refunding, Series 1998A, 5.200%, 5/01/28 (Pre-refunded 5/01/08) □ MBIA Insured	5/08 at 102.0
1,750	Lake Tahoe Unified School District, El Dorado County, California, General Obligation Bonds, Series 1999A, 5.250%, 8/01/24 (Pre-refunded 8/01/09) □ FGIC Insured	8/09 at 100.0
3,865	Los Angeles County Metropolitan Transportation Authority, California, Proposition C Second Senior Lien Sales Tax Revenue Bonds, Series 2000A, 5.250%, 7/01/30 (Pre-refunded 7/01/10) □ FGIC Insured	7/10 at 101.0
	Manteca Unified School District, San Joaquin County, California, General Obligation Bonds, Series 2004:	
1,000	5.250%, 8/01/21 (Pre-refunded 8/01/14) □ FSA Insured	8/14 at 100.0
1,000	5.250%, 8/01/22 (Pre-refunded 8/01/14) □ FSA Insured	8/14 at 100.0
2,500	Oakland, California, Insured Revenue Bonds, 1800 Harrison Foundation □ Kaiser Permanente, Series 1999A, 6.000%, 1/01/29 (Pre-refunded 1/01/10) □ AMBAC Insured	1/10 at 100.0
2,775	Pomona Public Financing Authority, California, Revenue Bonds, Water Facilities Project, Series 1999AC, 5.500%, 5/01/29 (Pre-refunded 5/01/09) □ FGIC Insured	5/09 at 101.0
1,610	Poway Redevelopment Agency, California, Tax Allocation Refunding Bonds, Paguay Redevelopment Project, Series 2000, 5.750%, 6/15/33 (Pre-refunded 12/15/10) □ MBIA Insured	12/10 at 102.0
3,500	Puerto Rico Electric Power Authority, Power Revenue Bonds, Series 2002II, 5.125%, 7/01/26 (Pre-refunded 7/01/12) □ FSA Insured	7/12 at 101.0
4,320	Riverside County, California, GNMA Mortgage-Backed Securities Program Single Family Mortgage Revenue Bonds, Series 1987B, 8.625%, 5/01/16 (Alternative Minimum Tax) (ETM)	No Opt. Ca
1,690	Sacramento City Financing Authority, California, Capital Improvement Revenue Bonds, Solid Waste and Redevelopment Projects, Series 1999, 5.800%, 12/01/19 (Pre-refunded 12/01/09) □ AMBAC Insured	12/09 at 102.0
1,000	Sacramento County Sanitation District Financing Authority, California, Revenue Bonds, Series	12/10 at 101.0

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2000A, 5.500%, 12/01/20 (Pre-refunded 12/01/10) □ AMBAC Insured
 3,500 San Francisco Bay Area Rapid Transit District, California, Sales Tax Revenue Bonds, Series 7/09 at 101.0
 1999, 5.500%, 7/01/34 (Pre-refunded 7/01/09) □ FGIC Insured

67,955 Total U.S. Guaranteed

Utilities □ 7.9% (5.2% of Total Investments)

3,740 California Pollution Control Financing Authority, Revenue Refunding Bonds, Southern California Edison Company, Series 1999B, 5.450%, 9/01/29 □ MBIA Insured 9/09 at 101.0
 670 Merced Irrigation District, California, Electric System Revenue Bonds, Series 2005, 5.125%, 9/01/31 □ XLCA Insured 9/15 at 100.0
 100 Sacramento City Financing Authority, California, Capital Improvement Revenue Bonds, Solid Waste and Redevelopment Projects, Series 1999, 5.800%, 12/01/19 □ AMBAC Insured 12/09 at 102.0
 1,950 Salinas Valley Solid Waste Authority, California, Revenue Bonds, Series 2002, 5.250%, 8/01/27 □ AMBAC Insured (Alternative Minimum Tax) 8/12 at 100.0
 Santa Clara, California, Subordinate Electric Revenue Bonds, Series 2003A:
 2,800 5.000%, 7/01/24 □ MBIA Insured 7/13 at 100.0
 5,000 5.000%, 7/01/28 □ MBIA Insured 7/13 at 100.0

14,260 Total Utilities

Water and Sewer □ 20.8% (13.8% of Total Investments)

2,975 Chino Basin Regional Finance Authority, California, Sewerage System Revenue Bonds, Inland Empire Utilities Agency, Series 1994, 6.000%, 8/01/16 □ AMBAC Insured 8/07 at 100.0
 2,000 El Dorado Irrigation District, California, Water and Sewer Certificates of Participation, Series 2004A, 5.000%, 3/01/21 □ FGIC Insured 3/14 at 100.0
 460 Healdsburg Public Financing Authority, California, Wastewater Revenue Bonds, Series 2006, 5.000%, 4/01/36 □ MBIA Insured 4/16 at 100.0
 2,700 Los Angeles County Sanitation Districts Financing Authority, California, Senior Revenue Bonds, Capital Projects, Series 2003A, 5.000%, 10/01/21 □ FSA Insured 10/13 at 100.0
 430 Marina Coast Water District, California, Enterprise Certificate of Participation, Series 2006, 5.000%, 6/01/31 □ MBIA Insured 6/16 at 100.0
 12,000 Orange County Sanitation District, California, Certificates of Participation, Series 2003, 5.000%, 2/01/33 □ FGIC Insured 8/13 at 100.0
 1,700 Pomona Public Finance Authority, California, Revenue Bonds, Water Facilities Project, Series 2007AY, 5.000%, 5/01/37 □ AMBAC Insured 5/17 at 100.0
 1,520 San Buenaventura, California, Water Revenue Certificates of Participation, Series 2004, 5.000%, 10/01/25 □ AMBAC Insured 10/14 at 100.0
 3,675 San Dieguito Water District, California, Water Revenue Bonds, Series 2004, 5.000%, 10/01/23 □ FGIC Insured 10/14 at 100.0
 Santa Clara Valley Water District, California, Certificates of Participation, Series 2004A:
 1,400 5.000%, 2/01/19 □ FGIC Insured 2/14 at 100.0
 445 5.000%, 2/01/20 □ FGIC Insured 2/14 at 100.0
 465 5.000%, 2/01/21 □ FGIC Insured 2/14 at 100.0
 2,500 West Basin Municipal Water District, California, Revenue Certificates of Participation, Series 2003A, 5.000%, 8/01/30 □ MBIA Insured 8/13 at 100.0
 750 Westlands Water District, California, Revenue Certificates of Participation, Series 2007A, 5.000%, 9/01/37 □ MBIA Insured 9/16 at 100.0

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Yorba Linda Water District, California, Certificates of Participation, Highland Reservoir
Renovation, Series 2003:

2,010	5.000%, 10/01/28	FGIC Insured	10/13 at 100.00
2,530	5.000%, 10/01/33	FGIC Insured	10/13 at 100.00

37,560 Total Water and Sewer

\$ 279,005 Total Investments (cost \$271,356,325) 150.7%

Floating Rate Obligations (2.1)%

Other Assets Less Liabilities 2.1%

Preferred Shares, at Liquidation Value (50.7)%

Net Assets Applicable to Common Shares 100%

Forward Swaps outstanding at May 31, 2007:

Counterparty	Notional Amount	Fund Pay/Receive Floating Rate	Floating Rate Index	Fixed Rate (Annualized)	Fixed Rate Payment Frequency	Effective Date (5)	Termination Date	Unrealized Appreciation (Depreciation)
Morgan Stanley	\$6,200,000	Pay	3-Month USD-LIBOR	5.811%	Semi-Annually	7/27/07	7/27/24	\$156,000
Morgan Stanley	5,400,000	Pay	3-Month USD-LIBOR	5.816	Semi-Annually	7/27/07	7/27/29	140,000
								\$296,000

USD-LIBOR (United States Dollar-London Inter-Bank Offered Rate)

All of the bonds in the Portfolio of Investments are either covered by Original Issue Insurance, Secondary Market Insurance or Portfolio Insurance, or are backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities, any of which ensure the timely payment of principal and interest.

The Fund may invest in zero coupon securities. A zero coupon security does not pay a regular interest coupon to its holders during the life of the security. Tax-exempt income to the holder of the security comes from accretion of the difference between the original purchase price of the security at issuance and the par value of the security at maturity and is effectively paid at maturity. Such securities are included in the portfolio with a 0.00% coupon rate in their description. The market prices of zero coupon securities generally are more volatile than the market prices of securities that pay interest periodically.

- (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) Ratings: Using the higher of Standard & Poor's or Moody's rating. Ratings below BBB by

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Standard & Poor's Group or Baa by Moody's Investor Service, Inc. are considered to be below investment grade.

- (4) 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.
- (5) Effective date represents the date on which both the Fund and counterparty commence interest payment accruals on each forward swap contract.
- (ETM) Escrowed to maturity.
- (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction pursuant to the provisions of SFAS No. 140.

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 the treatment of paydown gains and losses, 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 transactions subject to SFAS No. 140.

At May 31, 2007, the cost of investments was \$267,198,261.

Gross unrealized appreciation and gross unrealized depreciation of investments at May 31, 2007, were as follows:

Gross unrealized:	
Appreciation	\$11,746,268
Depreciation	(379,240)
<hr/>	
Net unrealized appreciation (depreciation) of investments	\$11,367,028

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: 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 Insured California Premium Income Municipal Fund 2, Inc.

By (Signature and Title)* /s/ Kevin J. McCarthy
Kevin J. McCarthy
Vice President and Secretary

Date July 27, 2007

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/ Gifford R. Zimmerman
Gifford R. Zimmerman
Chief Administrative Officer (principal executive officer)

Date July 27, 2007

By (Signature and Title)* /s/ Stephen D. Foy
Stephen D. Foy
Vice President and Controller (principal financial officer)

Date July 27, 2007

* Print the name and title of each signing officer under his or her signature.