

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form N-Q
January 27, 2012

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: 2/28

Date of reporting period: 11/30/11

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)
 November 30, 2011

| Principal Amount (000) | Description (1) | Optional Call Provisions (2) | Ratings (3) | Value |
|------------------------------|---|---------------------------------------|----------------|--------------|
| \$ 7,500 | Consumer Staples – 2.6% (1.8% of Total Investments) Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.125%, 6/01/47 | 6/17 at 100.00 | BB+ | \$ 4,770,600 |
| 545 | Education and Civic Organizations – 5.0% (3.4% of Total Investments) California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2000, 5.875%, 11/01/20 – NPFPG Insured | 2/12 at 100.00 | A2 | 546,886 |
| 750 | California Educational Facilities Authority, Student Loan Revenue Bonds, Cal Loan Program, Series 2001A, 5.400%, 3/01/21 – NPFPG Insured (Alternative Minimum Tax) | 3/12 at 100.00 | Baa1 | 750,525 |
| 1,500 | California State University, Systemwide Revenue Bonds, Series 2005A, 5.000%, 11/01/25 – AMBAC Insured+ | 5/15 at 100.00 | Aa2 | 1,636,665 |
| 6,000 | University of California, General Revenue Bonds, Multi-Project Series 2003A, 5.000%, 5/15/27 – AMBAC Insured (UB) | 5/13 at 100.00 | Aa1 | 6,231,600 |
| 8,795 | Total Education and Civic Organizations Health Care – 4.8% (3.2% of Total Investments) | | | 9,165,676 |
| 1,410 | California Statewide Communities Development Authority, Revenue Bonds, Saint Joseph Health System, Trust 2554, 18.384%, 7/01/47 – AGM Insured (IF) | 7/18 at 100.00 | AA– | 1,434,026 |
| 4,690 | Santa Clara County Financing Authority, California, Insured Revenue Bonds, El Camino Hospital, Series 2007A, 5.750%, 2/01/41 – AMBAC Insured | 8/17 at 100.00 | A+ | 4,825,307 |
| 2,000 | The Regents of the University of California, Medical Center Pooled Revenue Bonds, Series 2007A, 4.500%, 5/15/37 – NPFPG Insured | 5/15 at 101.00 | Aa2 | 1,866,380 |
| 650 | University of California, Hospital Revenue Bonds, UCLA Medical Center, Series 2004A, 5.500%, 5/15/18 – AMBAC Insured | 5/12 at 101.00 | N/R | 662,597 |
| 8,750 | Total Health Care Housing/Single Family – 0.8% (0.5% of Total Investments) | | | 8,788,310 |
| 215 | | | BBB | 215,099 |

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| | California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006H, 5.750%, 8/01/30 – FGIC Insured (Alternative Minimum Tax) | 2/16 at 100.00 | | |
| 1,190 | California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006K, 5.500%, 2/01/42 – AMBAC Insured (Alternative Minimum Tax) | 2/16 at 100.00 | N/R | 1,204,197 |
| 1,405 | Total Housing/Single Family Long-Term Care – 1.4% (0.9% of Total Investments) | | | 1,419,296 |
| 1,575 | California Health Facilities Financing Authority, Insured Revenue Bonds, California-Nevada Methodist Homes, Series 2006, 5.000%, 7/01/36 | 7/16 at 100.00 | A– | 1,496,927 |
| 1,000 | California Health Facilities Financing Authority, Insured Revenue Bonds, Community Program for Persons with Developmental Disabilities, Series 2011A, 6.250%, 2/01/26 | No Opt. Call | A– | 1,079,890 |
| 2,575 | Total Long-Term Care Tax Obligation/General – 31.4% (21.1% of Total Investments) | | | 2,576,817 |
| 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 100.00 | A– | 1,467,950 |
| 6,000 | California State, General Obligation Bonds, Various Purpose Series 2010, 6.000%, 3/01/33 | 3/20 at 100.00 | A1 | 6,735,120 |
| 1,000 | California State, General Obligation Bonds, Various Purpose Series 2011, 5.250%, 9/01/25 | No Opt. Call | A1 | 1,108,160 |
| 4,200 | Coast Community College District, Orange County, California, General Obligation Bonds, Series 2006C, 0.000%, 8/01/31 – AGM Insured | 8/18 at 100.00 | Aa1 | 3,899,784 |
| 2,500 | Corona-Norco Unified School District, Riverside County, California, General Obligation Bonds, Election 2006 Series 2009B, 5.375%, 2/01/34 – AGC Insured | 8/18 at 100.00 | Aa2 | 2,640,150 |
| 3,490 | East Side Union High School District, Santa Clara County, California, General Obligation Bonds, 2008 Election Series 2010B: 5.000%, 8/01/27 – AGC Insured | 8/19 at 100.00 | AA– | 3,686,487 |
| 3,545 | 5.000%, 8/01/28 – AGC Insured | 8/19 at 100.00 | AA– | 3,718,457 |
| 3,110 | 5.000%, 8/01/29 – AGC Insured | 8/19 at 100.00 | AA– | 3,239,407 |
| 2,210 | Fontana Unified School District, San Bernardino County, California, General Obligation Bonds, Trust 2668, 9.429%, 2/01/16 – AGM Insured (IF) | No Opt. Call | AA– | 2,510,383 |
| 1,255 | Los Angeles Community College District, Los Angeles County, California, General Obligation Bonds, Series 2005A, 5.000%, 8/01/24 – AGM Insured | 8/15 at 100.00 | Aa1 | 1,344,984 |
| 4,000 | Los Angeles Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2007A, 4.500%, 7/01/24 – AGM Insured | 7/17 at 100.00 | Aa2 | 4,170,320 |
| | Los Rios Community College District, Sacramento, El Dorado and Yolo Counties, California, General Obligation Bonds, Series 2006C: | | | |

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| 2,110 | 5.000%, 8/01/21 – AGM Insured (UB) | 8/14 at 102.00 | Aa2 | 2,316,442 |
| 3,250 | 5.000%, 8/01/22 – AGM Insured (UB) | 8/14 at 102.00 | Aa2 | 3,611,238 |
| 3,395 | 5.000%, 8/01/23 – AGM Insured (UB) | 8/14 at 102.00 | Aa2 | 3,772,354 |
| 1,270 | Merced City School District, Merced County, California, General Obligation Bonds, Series 2004, 5.000%, 8/01/22 – FGIC Insured | 8/13 at 100.00 | A | 1,303,642 |
| 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 100.00 | AA– | 319,915 |
| 2,500 | Sacramento City Unified School District, Sacramento County, California, General Obligation Bonds, Series 2005, 5.000%, 7/01/27 – NPPG Insured | 7/15 at 100.00 | Aa3 | 2,655,425 |
| 1,125 | San Diego Unified School District, San Diego County, California, General Obligation Bonds, Election of 1998, Series 1999A, 0.000%, 7/01/21 – FGIC Insured | No Opt. Call | Aa2 | 742,984 |
| 2,000 | San Francisco Community College District, California, General Obligation Bonds, Series 2002A, 5.000%, 6/15/26 – FGIC Insured | 6/12 at 100.00 | Aa2 | 2,024,720 |
| 2,000 | San Jacinto Unified School District, Riverside County, California, General Obligation Bonds, Series 2007, 5.250%, 8/01/32 – AGM Insured | No Opt. Call | AA– | 2,086,900 |
| 3,770 | Stockton Unified School District, San Joaquin County, California, General Obligation Bonds, Election 2008 Series 2011D, 0.000%, 8/01/50 – AGM Insured | 8/37 at 100.00 | AA– | 1,511,393 |
| 2,445 | Washington Unified School District, Yolo County, California, General Obligation Bonds, Series 2004A, 5.000%, 8/01/21 – FGIC Insured | 8/13 at 100.00 | A+ | 2,569,988 |
| 56,905 | Total Tax Obligation/General Tax Obligation/Limited – 64.4% (43.4% of Total Investments) Anaheim Public Finance Authority, California, Subordinate Lease Revenue Bonds, Public Improvement Project, Series 1997C: | | | 57,436,203 |
| 5,130 | 0.000%, 9/01/18 – AGM Insured | No Opt. Call | AA– | 3,840,882 |
| 8,000 | 0.000%, 9/01/21 – AGM Insured | No Opt. Call | AA– | 4,869,840 |
| 2,235 | Antioch Public Financing Authority, California, Lease Revenue Refunding Bonds, Municipal Facilities Project, Refunding Series 2002A, 5.500%, 1/01/32 – NPPG Insured California Infrastructure and Economic Development Bank, Revenue Bonds, North County Center for Self-Sufficiency Corporation, Series 2004: | 2/12 at 100.00 | A | 2,235,089 |
| 1,535 | 5.000%, 12/01/20 – AMBAC Insured | 12/13 at 100.00 | AA | 1,614,099 |
| 1,780 | 5.000%, 12/01/23 – AMBAC Insured | 12/13 at 100.00 | AA | 1,848,067 |
| 3,725 | | | A2 | 4,055,035 |

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| | California State Public Works Board, Lease Revenue Bonds, Department of Corrections & Rehabilitation, Series 2005J, 5.000%, 1/01/17 – AMBAC Insured | 1/16 at 100.00 | | |
| 4,000 | California State Public Works Board, Lease Revenue Bonds, Various Capital Projects, Series 2009G-1, 5.750%, 10/01/30 | 10/19 at 100.00 | A2 | 4,183,000 |
| 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 100.00 | BBB | 377,496 |
| 7,000 | Chula Vista Public Financing Authority, California, Pooled Community Facility District Assessment Revenue Bonds, Series 2005A, 4.500%, 9/01/27 – NPMFG Insured | 9/15 at 100.00 | Baa1 | 6,074,460 |
| 1,430 | Cloverdale Community Development Agency, California, Tax Allocation Refunding Bonds, Cloverdale Redevelopment Project Series 2006, 5.000%, 8/01/36 – AMBAC Insured | No Opt. Call | A– | 1,274,774 |
| 575 | Dinuba Redevelopment Agency, California, Tax Allocation Bonds, Merged City of Dinuba Redevelopment Project and Dinuba Redevelopment Project 2, As Amended, Refunding Series 2001, 5.000%, 9/01/31 – NPMFG Insured | 3/12 at 102.00 | A– | 538,930 |
| 5,225 | El Monte, California, Senior Lien Certificates of Participation, Department of Public Services Facility Phase II, Series 2001, 5.000%, 1/01/21 – AMBAC Insured | 1/12 at 100.00 | A2 | 5,229,755 |
| 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 100.00 | A | 8,013,964 |
| 7,250 | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Series 2005A: 5.000%, 6/01/35 – FGIC Insured | 6/15 at 100.00 | AA– | 7,021,118 |
| 7,500 | 5.000%, 6/01/45 – AGC Insured | 6/15 at 100.00 | AA– | 7,154,700 |
| 6,215 | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Tender Option Bonds Trust 4686, 8.823%, 6/01/45 – AGC Insured (IF) (4) | 6/15 at 100.00 | AA– | 5,642,723 |
| 2,000 | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Revenue Bonds, Tender Option Bonds Trust 2040, 10.615%, 6/01/45 – FGIC Insured (IF) | 6/15 at 100.00 | A2 | 1,496,120 |
| 875 | Hesperia Public Financing Authority, California, Redevelopment and Housing Projects Tax Allocation Bonds, Series 2007A, 5.000%, 9/01/37 – SYNCORA GTY Insured | 9/17 at 100.00 | Ba1 | 593,810 |
| 1,700 | Hesperia Unified School District, San Bernardino County, California, Certificates of | 2/17 at 100.00 | A– | 1,514,853 |

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| | Participation, Capital Improvement, Series 2007, 5.000%, 2/01/41 – AMBAC Insured | | | |
| | Inglewood Redevelopment Agency, California, Tax Allocation | 5/17 at | | |
| 710 | Bonds, Merged Redevelopment Project, Subordinate Lien Series 2007A-1, 5.000%, 5/01/25 – AMBAC Insured | 100.00 | BBB+ | 644,545 |
| | La Quinta Redevelopment Agency, California, Tax Allocation | 3/12 at | | |
| 5,000 | Refunding Bonds, Redevelopment Project Area 1, Series 1998, 5.200%, 9/01/28 – AMBAC Insured | 100.00 | A+ | 4,952,700 |
| | Los Angeles Community Redevelopment Agency, California, Lease | 9/15 at | | |
| 2,185 | Revenue Bonds, Manchester Social Services Project, Series 2005, 5.000%, 9/01/37 – AMBAC Insured | 100.00 | A1 | 2,005,764 |
| | Los Angeles Community Redevelopment Agency, California, Tax | 12/14 at | | |
| 1,000 | Allocation Bonds, Bunker Hill Project, Series 2004A, 5.000%, 12/01/20 – AGM Insured | 100.00 | AA– | 1,083,720 |
| | Los Angeles, California, Certificates of Participation, Municipal | 6/13 at | | |
| 4,000 | Improvement Corporation, Series 2003AW, 5.000%, 6/01/33 – AMBAC Insured | 100.00 | A+ | 4,025,560 |
| | Los Angeles, California, Municipal Improvement Corporation, | 1/17 at | | |
| 3,000 | Lease Revenue Bonds, Police Headquarters, Series 2006A, 4.750%, 1/01/31 – FGIC Insured | 100.00 | A+ | 2,986,830 |
| | Moreno Valley Community Redevelopment Agency, California, Tax | 8/17 at | | |
| 6,120 | Allocation Bonds, Series 2007A, 5.000%, 8/01/38 – AMBAC Insured | 100.00 | A– | 5,387,681 |
| | Oakland Joint Powers Financing Authority, California, Lease | 8/18 at | | |
| 2,810 | Revenue Bonds, Administration Building Projects, Series 2008B, 5.000%, 8/01/21 – AGC Insured | 100.00 | AA– | 3,018,333 |
| | Palm Springs Financing Authority, California, Lease Revenue | 11/14 at | | |
| 1,000 | Bonds, Convention Center Project, Refunding Series 2004A, 5.500%, 11/01/35 – NPMFG Insured | 102.00 | A | 1,018,250 |
| | Plumas County, California, Certificates of Participation, Capital | 6/13 at | | |
| 4,140 | Improvement Program, Series 2003A, 5.000%, 6/01/28 – AMBAC Insured | 101.00 | A | 4,147,204 |
| | Poway Redevelopment Agency, California, Tax Allocation | 12/12 at | | |
| 390 | Refunding Bonds, Paguay Redevelopment Project, Series 2000, 5.750%, 6/15/33 – NPMFG Insured | 100.00 | Baa1 | 385,480 |
| | Rialto Redevelopment Agency, California, Tax Allocation Bonds, | 9/15 at | | |
| 325 | Merged Project Area, Series 2005A, 5.000%, 9/01/35 – SYNCORA GTY Insured | 100.00 | A– | 291,093 |
| | Rocklin Unified School District, Placer County, California, Special | 9/13 at | | |
| 1,000 | Tax Bonds, Community Facilities District 1, Series 2004, 5.000%, 9/01/25 – NPMFG Insured | 100.00 | A– | 986,720 |
| | Roseville Financing Authority, California, Special Tax Revenue | 9/17 at | | |
| 2,500 | Bonds, Series 2007A, 5.000%, 9/01/33 – AMBAC Insured | 100.00 | N/R | 2,173,650 |
| | Roseville, California, Certificates of Participation, Public Facilities, | 8/13 at | | |
| 405 | Series 2003A, 5.000%, 8/01/25 – AMBAC Insured | 100.00 | AA– | 408,487 |
| | San Bernardino Joint Powers Financing Authority, California, | 3/12 at | | |
| 4,295 | Certificates of Participation | 100.00 | Baa1 | 4,296,718 |

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| | Refunding, Police Station Financing Project, Series 1999, 5.500%, 9/01/20 – NPMFG Insured San Jose Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005A: | | | |
| 3,310 | 5.000%, 8/01/20 – NPMFG Insured | No Opt. Call | Baa1 | 3,261,773 |
| | | 8/15 at | | |
| 1,500 | 5.000%, 8/01/28 – NPMFG Insured | 100.00 | Baa1 | 1,341,735 |
| | Sweetwater Union High School District Public Financing Authority, California, Special Tax | 9/15 at | | |
| 5,510 | Revenue Bonds, Series 2005A, 5.000%, 9/01/28 – AGM Insured | 100.00 | AA– | 5,589,509 |
| | Tustin Community Redevelopment Agency, California, Tax | | | |
| 1,205 | Allocation Housing Bonds Series 2010, 5.000%, 9/01/30 – AGM Insured | No Opt. Call | AA– | 1,241,512 |
| | Washington Unified School District, Yolo County, California, Certificates of Participation, Series 2007, 5.125%, 8/01/37 – AMBAC Insured | 8/17 at 100.00 | A | 1,023,907 |
| 126,260 | Total Tax Obligation/Limited Transportation – 6.0% (4.0% of Total Investments) | | | 117,849,886 |
| | Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Refunding | 2/12 at 71.94 | Baa2 | 4,563,780 |
| 6,500 | Bonds, Series 1999, 0.000%, 1/15/18 – NPMFG Insured | | | |
| | Orange County Transportation Authority, California, Toll Road Revenue Bonds, 91 Express Lanes | 8/13 at 100.00 | A1 | 4,209,000 |
| 4,000 | Project, Series 2003A, 5.000%, 8/15/18 – AMBAC Insured | | | |
| | San Francisco Airports Commission, California, Revenue Refunding Bonds, San Francisco | 5/12 at 100.00 | A+ | 2,154,892 |
| 2,155 | International Airport, Second Series 2001, Issue 27A, 5.250%, 5/01/31 – NPMFG Insured (Alternative Minimum Tax) | | | |
| 12,655 | Total Transportation U.S. Guaranteed – 3.1% (2.1% of Total Investments) (5) | | | 10,927,672 |
| | Central Unified School District, Fresno County, California, General Obligation Bonds, Series | 3/12 at 100.00 | N/R (5) | 1,728,717 |
| 1,705 | 1993, 5.625%, 3/01/18 – AMBAC Insured (ETM) | | | |
| | Riverside County, California, GNMA Mortgage-Backed Securities Program Single Family Mortgage | No Opt. Call | Aaa | 3,881,280 |
| 3,000 | Revenue Bonds, Series 1987B, 8.625%, 5/01/16 (Alternative Minimum Tax) (ETM) | | | |
| 4,705 | Total U.S. Guaranteed Utilities – 8.1% (5.5% of Total Investments) | | | 5,609,997 |
| | Merced Irrigation District, California, Electric System Revenue Bonds, Series 2005, 5.125%, 9/01/31 – SYNCORA GTY Insured | 9/15 at 100.00 | N/R | 609,110 |
| 670 | Sacramento City Financing Authority, California, Capital Improvement Revenue Bonds, Solid | 2/12 at 100.00 | N/R | 100,056 |
| 100 | Waste and Redevelopment Projects, Series 1999, 5.800%, 12/01/19 – AMBAC Insured | | | |
| | Salinas Valley Solid Waste Authority, California, Revenue Bonds, Series 2002, 5.250%, | 8/12 at 100.00 | A+ | 1,938,534 |

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8/01/27 – AMBAC Insured (Alternative Minimum Tax)
 Santa Clara, California, Subordinate Electric Revenue Bonds, Series
 2003A:

| | | | | |
|--------|--|----------|-----|------------|
| | | 7/13 at | | |
| 2,800 | 5.000%, 7/01/24 – NPMFG Insured | 100.00 | A1 | 2,869,832 |
| | | 7/13 at | | |
| 5,000 | 5.000%, 7/01/28 – NPMFG Insured | 100.00 | A1 | 5,057,150 |
| | Southern California Public Power Authority, California, Milford | No Opt. | | |
| 4,000 | Wind Corridor Phase I Revenue | Call | AA– | 4,301,080 |
| | Bonds, Series 2010-1, 5.000%, 7/01/28 | | | |
| 14,520 | Total Utilities | | | 14,875,762 |
| | Water and Sewer – 20.9% (14.1% of Total Investments) | | | |
| | Atwater Public Financing Authority, California, Wastewater | 5/19 at | | |
| 1,100 | Revenue Bonds, Tender Option Bond | 100.00 | AA– | 1,214,444 |
| | Trust 3145, 18.311%, 5/01/40 – AGM Insured (IF) | | | |
| | El Dorado Irrigation District, California, Water and Sewer | 3/14 at | | |
| 2,000 | Certificates of Participation, | 100.00 | A1 | 2,074,320 |
| | Series 2004A, 5.000%, 3/01/21 – FGIC Insured | | | |
| | Fortuna Public Finance Authority, California, Water Revenue | 10/16 at | | |
| 750 | Bonds, Series 2006, 5.000%, | 100.00 | AA– | 760,718 |
| | 10/01/36 – AGM Insured | | | |
| | Healdsburg Public Financing Authority, California, Wastewater | 4/16 at | | |
| 460 | Revenue Bonds, Series 2006, | 100.00 | AA– | 466,500 |
| | 5.000%, 4/01/36 – NPMFG Insured | | | |
| | Los Angeles County Sanitation Districts Financing Authority, | 10/13 at | | |
| 2,700 | California, Senior Revenue Bonds, | 100.00 | AA+ | 2,889,054 |
| | Capital Projects, Series 2003A, 5.000%, 10/01/21 – AGM Insured | | | |
| | Los Angeles, California, Wastewater System Revenue Bonds, Series | 6/15 at | | |
| 2,000 | 2005A, 4.500%, 6/01/29 – | 100.00 | AA | 2,030,100 |
| | NPMFG Insured | | | |
| | Marina Coast Water District, California, Enterprise Certificate of | 6/16 at | | |
| 430 | Participation, Series 2006, | 100.00 | AA– | 436,489 |
| | 5.000%, 6/01/31 – NPMFG Insured | | | |
| | Orange County Sanitation District, California, Certificates of | 8/13 at | | |
| 12,000 | Participation, Series 2003, | 100.00 | AAA | 12,182,520 |
| | 5.000%, 2/01/33 – FGIC Insured (UB) | | | |
| | San Buenaventura, California, Water Revenue Certificates of | 10/14 at | | |
| 1,520 | Participation, Series 2004, | 100.00 | AA | 1,561,724 |
| | 5.000%, 10/01/25 – AMBAC Insured | | | |
| | San Diego County Water Authority, California, Water Revenue | 5/18 at | | |
| 1,000 | Certificates of Participation, | 100.00 | AA+ | 1,036,880 |
| | Series 2008A, 5.000%, 5/01/38 – AGM Insured | | | |
| | San Dieguito Water District, California, Water Revenue Bonds, | 10/14 at | | |
| 3,675 | Refunding Series 2004, 5.000%, | 100.00 | AA+ | 3,990,683 |
| | 10/01/23 – FGIC Insured | | | |
| | Santa Clara Valley Water District, California, Certificates of | | | |
| | Participation, Series 2004A: | | | |
| | | 2/14 at | | |
| 1,400 | 5.000%, 2/01/19 – FGIC Insured | 100.00 | AA+ | 1,483,971 |
| | | 2/14 at | | |
| 445 | 5.000%, 2/01/20 – FGIC Insured | 100.00 | AA+ | 469,118 |

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| | | 2/14 at | | |
| 465 | 5.000%, 2/01/21 – FGIC Insured | 100.00 | AA+ | 487,631 |
| | West Basin Municipal Water District, California, Revenue | 8/13 at | | |
| 2,500 | Certificates of Participation, Series | 100.00 | Aa2 | 2,527,549 |
| | 2003A, 5.000%, 8/01/30 – NPFG Insured | | | |
| | Yorba Linda Water District, California, Certificates of Participation, | | | |
| | Highland Reservoir | | | |
| | Renovation, Series 2003: | | | |
| | | 10/13 at | | |
| 2,010 | 5.000%, 10/01/28 – FGIC Insured | 100.00 | AA+ | 2,112,047 |
| | | 10/13 at | | |
| 2,530 | 5.000%, 10/01/33 – FGIC Insured | 100.00 | AA+ | 2,630,415 |
| 36,985 | Total Water and Sewer | | | 38,354,163 |
| \$ 281,055 | Total Investments (cost \$266,831,316) – 148.5% | | | 271,774,382 |
| | Floating Rate Obligations – (9.8)% | | | (17,880,000) |
| | Variable Rate Demand Preferred Shares, at Liquidation Value – | | | |
| | (40.4)% (6) | | | (74,000,000) |
| | Other Assets Less Liabilities – 1.7% | | | 3,133,095 |
| | | | | \$ |
| | Net Assets Applicable to Common Shares – 100% | | | 183,027,477 |

Fair Value Measurements

Fair value is defined as the price that the Fund would receive 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 three-tier hierarchy of inputs is summarized in the three broad levels listed below:

Level 1 – Quoted prices in active markets for identical securities.

Level 2 – Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – 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 risk associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of November 30, 2011:

| | Level 1 | Level 2 | Level 3 | Total |
|-----------------|---------|---------------|---------|---------------|
| Investments: | | | | |
| Municipal Bonds | \$ — | \$271,774,382 | \$ — | \$271,774,382 |

During the period ended November 30, 2011, the Fund recognized no significant transfers to or from Level 1, Level 2 or Level 3.

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.

At November 30, 2011, the cost of investments was \$248,596,183.

Gross unrealized appreciation and gross unrealized depreciation of investments at November 30, 2011, were as follows:

Gross unrealized:

| | |
|---|--------------|
| Appreciation | \$ 8,849,661 |
| Depreciation | (3,551,625) |
| Net unrealized appreciation (depreciation) of investments | \$ 5,298,036 |

The Fund intends to invest at least 80% of its managed assets in municipal securities that are covered by insurance guaranteeing the timely payment of principal and interest.

- (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.
Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. 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.
- (3) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities,
- (4) 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.
Variable Rate Demand Preferred Shares, at Liquidation Value as a percentage of Total Investments is
- (5) 27.2%.
- (6) N/R Not rated.
- (ETM) Escrowed to maturity.
- (IF) Inverse floating rate investment.
- (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.

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 Insured California Premium Income Municipal Fund 2, Inc.

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

Date January 27, 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 (Signature and Title) /s/ Gifford R. Zimmerman
Gifford R. Zimmerman
Chief Administrative Officer (principal executive officer)

Date January 27, 2012

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

Date January 27, 2012