

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form N-Q
July 30, 2010

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: 5/31/10

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, 2010

Principal

| Amount (000) | Description (1) | 11 |
|--------------|--|----|
| | Education and Civic Organizations – 5.1% (3.4% of Total Investments) | |
| \$ 620 | California Educational Facilities Authority, Revenue Bonds, University of the Pacific, Series 2000, 5.875%, 11/01/20 – NPMFG Insured | 11 |
| 750 | California Educational Facilities Authority, Student Loan Revenue Bonds, Cal Loan Program, Series 2001A, 5.400%, 3/01/21 – NPMFG Insured (Alternative Minimum Tax) | 9 |
| 1,500 | California State University, Systemwide Revenue Bonds, Series 2005A, 5.000%, 11/01/25 – AMBAC Insured | 5 |
| 6,000 | University of California, Revenue Bonds, Multi-Purpose Projects, Series 2003A, 5.000%, 5/15/27 – AMBAC Insured (UB) | 5 |
| 8,870 | Total Education and Civic Organizations | |
| | Health Care – 2.3% (1.5% of Total Investments) | |
| 1,410 | California Statewide Communities Development Authority, Revenue Bonds, Saint Joseph Health System, Trust 2554, 18.449%, 7/01/47 – AGM Insured (IF) | 7 |
| 2,000 | The Regents of the University of California, Medical Center Pooled Revenue Bonds, Series 2007A, 4.500%, 5/15/37 – NPMFG Insured | 5 |
| 650 | University of California, Hospital Revenue Bonds, UCLA Medical Center, Series 2004A, 5.500%, 5/15/18 – AMBAC Insured | 5 |
| 4,060 | Total Health Care | |
| | Housing/Single Family – 1.2% (0.8% of Total Investments) | |
| 275 | California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006H, 5.750%, 8/01/30 – FGIC Insured (Alternative Minimum Tax) | 2 |
| 1,735 | California Housing Finance Agency, Home Mortgage Revenue Bonds, Series 2006K, 5.500%, 2/01/42 – AMBAC Insured (Alternative Minimum Tax) | 2 |
| 2,010 | Total Housing/Single Family | |
| | Tax Obligation/General – 32.6% (21.9% 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 |
| 1,425 | Bassett Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2006B, 5.250%, 8/01/30 – FGIC Insured | 8 |
| 3,000 | California State, General Obligation Bonds, Series 2006, 4.500%, 9/01/36 – AGM Insured | 9 |
| 4,400 | California, General Obligation Bonds, Series 2003, 5.000%, 2/01/31 – NPMFG Insured | 2 |
| 3,000 | California, General Obligation Veterans Welfare Bonds, Series 2001BZ, 5.375%, 12/01/24 – NPMFG Insured (Alternative Minimum Tax) | 6 |

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| 3,200 | Coast Community College District, Orange County, California, General Obligation Bonds, Series 2006C, 0.000%, 8/01/31 – AGM Insured | 8 |
| 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 |
| | East Side Union High School District, Santa Clara County, California, General Obligation Bonds, 2008 Election Series 2010B: | |
| 3,490 | 5.000%, 8/01/27 – AGC Insured | 8 |
| 3,545 | 5.000%, 8/01/28 – AGC Insured | 8 |
| 3,110 | 5.000%, 8/01/29 – AGC Insured | 8 |
| 2,210 | Fontana Unified School District, San Bernardino County, California, General Obligation Bonds, Trust 2668, 9.389%, 8/01/28 – AGM Insured (IF) | 8 |
| 1,255 | Los Angeles Community College District, Los Angeles County, California, General Obligation Bonds, Series 2005A, 5.000%, 8/01/24 – AGM Insured | 8 |
| 4,000 | Los Angeles Unified School District, Los Angeles County, California, General Obligation Bonds, Series 2007A, 4.500%, 7/01/24 – AGM Insured | 7 |
| | Los Rios Community College District, Sacramento, El Dorado and Yolo Counties, California, General Obligation Bonds, Series 2006C: | |
| 2,110 | 5.000%, 8/01/21 – AGM Insured (UB) | 8 |
| 3,250 | 5.000%, 8/01/22 – AGM Insured (UB) | 8 |
| 3,395 | 5.000%, 8/01/23 – AGM Insured (UB) | 8 |
| 1,270 | Merced City School District, Merced County, California, General Obligation Bonds, Series 2004, 5.000%, 8/01/22 – FGIC Insured | 8 |
| 305 | Roseville Joint Union High School District, Placer County, California, General Obligation Bonds, Series 2006B, 5.000%, 8/01/27 – FGIC Insured | 8 |
| 2,500 | Sacramento City Unified School District, Sacramento County, California, General Obligation Bonds, Series 2005, 5.000%, 7/01/27 – NPPFG Insured | 7 |
| 1,125 | San Diego Unified School District, California, General Obligation Bonds, Election of 1998, Series 1999A, 0.000%, 7/01/21 – FGIC Insured | |
| 2,000 | San Francisco Community College District, California, General Obligation Bonds, Series 2002A, 5.000%, 6/15/26 – FGIC Insured | 6 |
| 2,000 | San Jacinto Unified School District, Riverside County, California, General Obligation Bonds, Series 2007, 5.250%, 8/01/32 – AGM Insured | |
| 1,000 | San Ramon Valley Unified School District, Contra Costa County, California, General Obligation Bonds, Series 2004, 5.000%, 8/01/24 – AGM Insured | 8 |
| 2,445 | Washington Unified School District, Yolo County, California, General Obligation Bonds, Series 2004A, 5.000%, 8/01/21 – FGIC Insured | 8 |
| 57,995 | Total Tax Obligation/General Tax Obligation/Limited – 55.4% (37.2% of Total Investments) | |
| | Anaheim Public Finance Authority, California, Subordinate Lease Revenue Bonds, Public Improvement Project, Series 1997C: | |
| 5,130 | 0.000%, 9/01/18 – AGM Insured | |

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| 8,000 | 0.000%, 9/01/21 – AGM Insured | |
| | 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 |
| 1,780 | 5.000%, 12/01/23 – AMBAC Insured | 12 |
| 3,725 | California State Public Works Board, Lease Revenue Bonds, Department of Corrections & Rehabilitation, Series 2005J, 5.000%, 1/01/17 – AMBAC Insured | 1 |
| 380 | Capistrano Unified School District, Orange County, California, Special Tax Bonds, Community Facilities District, Series 2005, 5.000%, 9/01/24 – FGIC Insured | 9 |
| 5,625 | 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 |
| 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 |
| | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Series 2005A: | |
| 7,250 | 5.000%, 6/01/35 – FGIC Insured | 6 |
| 7,500 | 5.000%, 6/01/45 – AGC Insured | 6 |
| 6,215 | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Revenue Bonds, Drivers Trust 2091, 9.523%, 6/01/45 – AGC Insured (IF) | 6 |
| 2,000 | Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Revenue Bonds, Residual Series 2040, 10.380%, 6/01/45 – FGIC Insured (IF) | 6 |
| 1,255 | Hesperia Public Financing Authority, California, Redevelopment and Housing Projects Tax Allocation Bonds, Series 2007A, 5.000%, 9/01/37 – SYNCORA GTY Insured | 9 |
| 1,700 | Hesperia Unified School District, San Bernardino County, California, Certificates of Participation, Capital Improvement, Series 2007, 5.000%, 2/01/41 – AMBAC Insured | 2 |
| 1,810 | Kern County Board of Education, California, Certificates of Participation Refunding, Series 1998A, 5.200%, 5/01/28 – NPFG Insured | 11 |
| 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 |
| 2,185 | Los Angeles Community Redevelopment Agency, California, Lease Revenue Bonds, Manchester Social Services Project, Series 2005, 5.000%, 9/01/37 – AMBAC Insured | 9 |
| 1,000 | Los Angeles Community Redevelopment Agency, California, Tax Allocation Bonds, Bunker Hill Project, Series 2004A, 5.000%, 12/01/20 – AGM Insured | 12 |
| 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 – NPFG Insured | 7 |
| 4,000 | Los Angeles, California, Certificates of Participation, Municipal Improvement Corporation, Series 2003AW, 5.000%, 6/01/33 – AMBAC Insured | 6 |
| 3,000 | Los Angeles, California, Municipal Improvement Corporation, Lease Revenue Bonds, Police Headquarters, Series 2006A, 4.750%, 1/01/31 – FGIC Insured | 1 |
| 6,120 | Moreno Valley Community Redevelopment Agency, California, Tax Allocation Bonds, Series 2007A, 5.000%, 8/01/38 – AMBAC Insured | 8 |

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| 2,810 | Oakland Joint Powers Financing Authority, California, Lease Revenue Bonds, Administration Building Projects, Series 2008B, 5.000%, 8/01/21 – AGC Insured | 8 |
| 4,140 | Plumas County, California, Certificates of Participation, Capital Improvement Program, Series 2003A, 5.000%, 6/01/28 – AMBAC Insured | 6 |
| 390 | Poway Redevelopment Agency, California, Tax Allocation Refunding Bonds, Paguay Redevelopment Project, Series 2000, 5.750%, 6/15/33 – NPFPG Insured | 12 |
| 325 | Rialto Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005A, 5.000%, 9/01/35 – SYNCORA GTY Insured | 9 |
| 1,000 | Rocklin Unified School District, Placer County, California, Special Tax Bonds, Community Facilities District 1, Series 2004, 5.000%, 9/01/25 – NPFPG Insured | 9 |
| 405 | Roseville, California, Certificates of Participation, Public Facilities, Series 2003A, 5.000%, 8/01/25 – AMBAC Insured | 8 |
| 5,000 | San Bernardino Joint Powers Financing Authority, California, Certificates of Participation Refunding, Police Station Financing Project, Series 1999, 5.500%, 9/01/20 – NPFPG Insured | 9 |
| 1,500 | San Jose Redevelopment Agency, California, Tax Allocation Bonds, Merged Project Area, Series 2005A, 5.000%, 8/01/28 – NPFPG Insured | 8 |
| 5,510 | Sweetwater Union High School District Public Financing Authority, California, Special Tax Revenue Bonds, Series 2005A, 5.000%, 9/01/28 – AGM Insured | 9 |
| 1,205 | Tustin Community Redevelopment Agency, California, Tax Allocation Housing Bonds Series 2010, 5.000%, 9/01/30 – AGM Insured | |
| 1,020 | Washington Unified School District, Yolo County, California, Certificates of Participation, Series 2007, 5.125%, 8/01/37 – AMBAC Insured | 8 |
| 108,045 | Total Tax Obligation/Limited Transportation – 7.2% (4.9% of Total Investments) | |
| 6,500 | Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Refunding Bonds, Series 1999, 0.000%, 1/15/18 – NPFPG Insured | |
| 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 |
| 5,000 | San Francisco Airports Commission, California, Revenue Refunding Bonds, San Francisco International Airport, Second Series 2001, Issue 27A, 5.250%, 5/01/31 – NPFPG Insured (Alternative Minimum Tax) | 5 |
| 15,500 | Total Transportation U.S. Guaranteed – 12.0% (8.1% 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) – NPFPG Insured | 11 |
| 1,900 | Central Unified School District, Fresno County, California, General Obligation Bonds, Series 1993, 5.625%, 3/01/18 – AMBAC Insured (ETM) | 9 |
| 3,000 | Escondido Union High School District, San Diego County, California, General Obligation Bonds, Series 1996, 5.700%, 11/01/10 – NPFPG Insured (ETM) | |
| 1,065 | Fresno Unified School District, Fresno County, California, General Obligation Bonds, Series 2001F: 5.125%, 8/01/21 – AGM Insured (ETM) | 8 |

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| 1,160 | 5.125%, 8/01/22 – AGM Insured (ETM) | 8 |
| 1,220 | 5.125%, 8/01/23 – AGM Insured (ETM) | 8 |
| | 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) – AGM Insured | 8 |
| 1,000 | 5.250%, 8/01/22 (Pre-refunded 8/01/14) – AGM Insured | 8 |
| 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) – NPMFG Insured | 12 |
| 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) | |
| 1,000 | Sacramento County Sanitation District Financing Authority, California, Revenue Bonds, Series 2000A, 5.500%, 12/01/20 (Pre-refunded 12/01/10) – AMBAC Insured | 12 |
| 905 | University of California, Hospital Revenue Bonds, UCLA Medical Center, Series 2004A, 5.500%, 5/15/18 (Pre-refunded 5/15/12) – AMBAC Insured | 5 |
| 19,560 | Total U.S. Guaranteed Utilities – 10.2% (6.9% of Total Investments) | |
| 3,740 | California Pollution Control Financing Authority, Revenue Refunding Bonds, Southern California Edison Company, Series 1999B, 5.450%, 9/01/29 – NPMFG Insured | 9 |
| 670 | Merced Irrigation District, California, Electric System Revenue Bonds, Series 2005, 5.125%, 9/01/31 – SYNCORA GTY Insured | 9 |
| 100 | Sacramento City Financing Authority, California, Capital Improvement Revenue Bonds, Solid Waste and Redevelopment Projects, Series 1999, 5.800%, 12/01/19 – AMBAC Insured | 6 |
| 1,950 | Salinas Valley Solid Waste Authority, California, Revenue Bonds, Series 2002, 5.250%, 8/01/27 – AMBAC Insured (Alternative Minimum Tax) | 8 |
| | Santa Clara, California, Subordinate Electric Revenue Bonds, Series 2003A: | |
| 2,800 | 5.000%, 7/01/24 – NPMFG Insured | 7 |
| 5,000 | 5.000%, 7/01/28 – NPMFG Insured | 7 |
| 4,000 | Southern California Public Power Authority, California, Milford Wind Corridor Phase I Revenue Bonds, Series 2010-1, 5.000%, 7/01/28 | |
| 18,260 | Total Utilities Water and Sewer – 22.7% (15.3% of Total Investments) | |
| 1,100 | Atwater Public Financing Authority, California, Wastewater Revenue Bonds, Tender Option Bond Trust 3145, 17.935%, 5/01/40 – AGM Insured (IF) | 5 |
| 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 |
| 2,000 | El Dorado Irrigation District, California, Water and Sewer Certificates of Participation, Series 2004A, 5.000%, 3/01/21 – FGIC Insured | 3 |
| 750 | Fortuna Public Finance Authority, California, Water Revenue Bonds, Series 2006, 5.000%, 10/01/36 – AGM Insured | 10 |
| 460 | Healdsburg Public Financing Authority, California, Wastewater Revenue Bonds, Series 2006, 5.000%, 4/01/36 – NPMFG Insured | 4 |

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|------------|---|----|
| 2,700 | Los Angeles County Sanitation Districts Financing Authority, California, Senior Revenue Bonds, Capital Projects, Series 2003A, 5.000%, 10/01/21 – AGM Insured | 10 |
| 2,000 | Los Angeles, California, Wastewater System Revenue Bonds, Series 2005A, 4.500%, 6/01/29 – NPFPG Insured | 6 |
| 430 | Marina Coast Water District, California, Enterprise Certificate of Participation, Series 2006, 5.000%, 6/01/31 – NPFPG Insured | 6 |
| 12,000 | Orange County Sanitation District, California, Certificates of Participation, Series 2003, 5.000%, 2/01/33 – FGIC Insured (UB) | 8 |
| 1,520 | San Buenaventura, California, Water Revenue Certificates of Participation, Series 2004, 5.000%, 10/01/25 – AMBAC Insured | 10 |
| 1,000 | San Diego County Water Authority, California, Water Revenue Certificates of Participation, Series 2008A, 5.000%, 5/01/38 – AGM Insured | 5 |
| 3,675 | San Dieguito Water District, California, Water Revenue Bonds, Series 2004, 5.000%, 10/01/23 – FGIC Insured | 10 |
| | Santa Clara Valley Water District, California, Certificates of Participation, Series 2004A: | |
| 1,400 | 5.000%, 2/01/19 – FGIC Insured | 2 |
| 445 | 5.000%, 2/01/20 – FGIC Insured | 2 |
| 465 | 5.000%, 2/01/21 – FGIC Insured | 2 |
| 2,500 | West Basin Municipal Water District, California, Revenue Certificates of Participation, Series 2003A, 5.000%, 8/01/30 – NPFPG Insured | 8 |
| | Yorba Linda Water District, California, Certificates of Participation, Highland Reservoir Renovation, Series 2003: | |
| 2,010 | 5.000%, 10/01/28 – FGIC Insured | 10 |
| 2,530 | 5.000%, 10/01/33 – FGIC Insured | 10 |
| 39,960 | Total Water and Sewer | |
| \$ 274,260 | Total Investments (cost \$265,591,850) – 148.7% | |
| | Floating Rate Obligations – (9.9)% | |
| | Other Assets Less Liabilities – 1.7% | |
| | Auction Rate Preferred Shares, at Liquidation Value – (40.5)% (5) | |
| | Net Assets Applicable to Common Shares – 100% | |

Fair Value Measurements

In determining the value of the Fund’s investments, various inputs are used. These inputs are 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 May 31, 2010:

| | Level 1 | Level 2 | Level 3 | Total |
|-----------------|---------|---------------|---------|---------------|
| Investments: | | | | |
| Municipal Bonds | \$ — | \$269,073,815 | \$ — | \$269,073,815 |

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 May 31, 2010, the cost of investments was \$247,386,911.

Gross unrealized appreciation and gross unrealized depreciation of investments at May 31, 2010, were as follows:

| | | |
|---|--|--------------|
| Gross unrealized: | | |
| Appreciation | | \$ 7,634,106 |
| Depreciation | | (3,827,702) |
| Net unrealized appreciation (depreciation) of investments | | \$ 3,806,404 |

The Fund intends to invest at least 80% of its net 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.
 - (3) Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investor 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.
 - (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. Such investments are normally considered to be equivalent to AAA rated securities.
 - (5) Auction Rate Preferred Shares, at Liquidation Value as a percentage of Total Investments is 27.3%.
- 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 July 30, 2010

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 30, 2010

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

Date July 30, 2010