

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN  
Form NSAR-B  
April 30, 2012

PAGE 1  
000 B000000 02/29/2012  
000 C000000 0000897422  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 NUVEEN INS CA PREMIUM INCOME MUNI FUND 2, INC  
001 B000000 811-07492  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
002 D020000 1286  
003 000000 N  
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005 000000 N  
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007 C010400 4  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 NUVEEN FUND ADVISORS, INC.  
008 B000001 A  
008 C000001 801-14147  
008 D010001 CHICAGO  
008 D020001 IL  
008 D030001 60606  
008 D040001 1286  
008 A000002 NUVEEN ASSET MANAGEMENT, LLC  
008 B000002 S  
008 C000002 801-71957  
008 D010002 CHICAGO  
008 D020002 IL  
008 D030002 60606  
008 D040002 1286  
012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
012 C010001 PROVIDENCE  
012 C020001 RI  
PAGE 2  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60606  
014 A000001 NUVEEN INVESTMENTS, LLC

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014 B000001 8-13464  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X  
018 000000 Y  
019 A000000 Y  
019 B000000 235  
019 C000000 NUVEENFUND  
020 C000001 0  
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022 A000001 GOLDMAN SACHS  
022 B000001 13-5108880  
022 C000001 5028  
022 D000001 2280  
022 A000002 E.J. DE LA ROSA  
022 B000002 95-4223441  
022 C000002 3234  
022 D000002 0  
022 A000003 WELLS FARGO  
022 B000003 41-1508325  
022 C000003 0  
022 D000003 2912  
022 A000004 MERRILL LYNCH  
022 B000004 13-5674085  
022 C000004 1085  
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022 A000005 PIPER JAFFRAY  
022 B000005 41-0953246  
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022 A000006 FMS BONDS INC  
022 B000006 59-1842344  
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PAGE 3  
022 D000006 0  
022 A000007 SOUTHWEST SECURITIES  
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022 A000008 GUGGENHEIM CAPITAL  
022 B000008 52-2144448  
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022 A000009 MESIROW CAPITAL MKTS  
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022 A000010 CITIGROUP  
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PAGE 6

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| 080       | C000000           | 114000  |
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| SIGNATURE | STEPHEN D. FOY    |   |
| TITLE     | V.P. & CONTROLLER |   |