

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN  
Form NSAR-A  
April 27, 2004

PAGE 1  
000 A000000 02/29/2004  
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 811-7492  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
002 D020000 1286  
003 000000 N  
004 000000 N  
005 000000 N  
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007 A000000 N  
007 B000000 0  
007 C010100 1  
007 C010200 2  
007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 NUVEEN ADVISORY CORP  
008 B000001 A  
008 C000001 801-12353  
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008 D020001 IL  
008 D030001 60606  
008 D040001 1286  
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012 A000001 EQUISERVE INC.  
PAGE 2  
012 B000001 84-05925  
012 C010001 BOSTON  
012 C020001 MA  
012 C030001 02940  
013 A000001 ERNST & YOUNG  
013 B010001 CHICAGO

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013 B020001 IL  
013 B030001 60611  
014 A000001 NUVEEN INVESTMENTS, LLC  
014 B000001 8-13464  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02206  
015 E010001 X  
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020 C000010 0  
021 000000 0  
022 A000001 BEAR STEARNS  
022 B000001 13-3604093  
022 C000001 7817  
022 D000001 10716  
022 A000002 CITIGROUP GLOBAL MARKETS, INC.  
022 B000002 13-3214963  
022 C000002 9403  
022 D000002 3853  
022 A000003 DAIN RAUSCHER  
022 B000003 41-0212020  
022 C000003 6923  
022 D000003 5124  
022 A000004 LEHMAN BROTHERS  
PAGE 3  
022 B000004 13-2518466  
022 C000004 10139  
022 D000004 0  
022 A000005 A.G. EDWARDS  
022 B000005 43-0895447  
022 C000005 0  
022 D000005 6163  
022 A000006 BANC AMERICA  
022 B000006 94-1687675  
022 C000006 0  
022 D000006 4118  
022 A000007 JPMORGAN  
022 B000007 13-3224016  
022 C000007 0  
022 D000007 4018  
022 A000008 RAYMOND JAMES

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|     |         |                        |       |
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| 022 | B000008 | 59-1237041             |       |
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| 022 | A000009 | UBS FINANCIAL SERVICES |       |
| 022 | B000009 | 13-2638166             |       |
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| 022 | D000009 |                        | 496   |
| 022 | A000010 | GOLDMAN SACHS          |       |
| 022 | B000010 | 13-5108880             |       |
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| 028 | G040000 |                        | 0     |
| 028 | H000000 |                        | 0     |

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|     |         |         |
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| 033 | 000000  | 0       |
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| 038 | 000000  | 0       |
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| 042 | C000000 | 0       |
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| 042 | G000000 | 0       |
| 042 | H000000 | 0       |
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| 045 | 000000  | Y       |
| 046 | 000000  | N       |
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| 048 | 000000  | 0.000   |
| 048 | A010000 | 125000  |
|     | PAGE    | 5       |
| 048 | A020000 | 0.650   |
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| 048 | B020000 | 0.638   |
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| 048 | C020000 | 0.625   |
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| 048 | D020000 | 0.613   |
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| 048 | E020000 | 0.600   |
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| 048 | H010000 | 0       |
| 048 | H020000 | 0.000   |
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| 054 | F000000 | N       |
| 054 | G000000 | N       |
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| 054 | I000000 | N       |
| 054 | J000000 | Y       |

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|     |         |   |       |
|-----|---------|---|-------|
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| 060 | A000000 | Y |       |
| 060 | B000000 | Y |       |
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|     | PAGE    | 6 |       |
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| 070 | C020000 | N |       |
| 070 | D010000 | N |       |
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| 070 | E010000 | Y |       |
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| 070 | I010000 | N |       |
| 070 | I020000 | N |       |
| 070 | J010000 | Y |       |
| 070 | J020000 | N |       |

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070 K010000 N  
 070 K020000 N  
 070 L010000 N  
 070 L020000 N  
 070 M010000 N  
 PAGE 7  
 070 M020000 N  
 070 N010000 N  
 070 N020000 N  
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 070 P020000 N  
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 PAGE 8  
 073 C000000 0.0000  
 074 A000000 0  
 074 B000000 0  
 074 C000000 0

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| 074 D000000 | 294467 |
| 074 E000000 | 0      |
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| 074 G000000 | 0      |
| 074 H000000 | 0      |
| 074 I000000 | 0      |
| 074 J000000 | 3291   |
| 074 K000000 | 0      |
| 074 L000000 | 3696   |
| 074 M000000 | 10     |
| 074 N000000 | 301464 |
| 074 O000000 | 5329   |
| 074 P000000 | 148    |
| 074 Q000000 | 0      |
| 074 R010000 | 0      |
| 074 R020000 | 0      |
| 074 R030000 | 0      |
| 074 R040000 | 2304   |
| 074 S000000 | 95000  |
| 074 T000000 | 198683 |
| 074 U010000 | 12696  |
| 074 U020000 | 0      |
| 074 V010000 | 15.65  |
| 074 V020000 | 0.00   |
| 074 W000000 | 0.0000 |
| 074 X000000 | 635    |
| 074 Y000000 | 8831   |
| 075 A000000 | 0      |
| 075 B000000 | 191957 |
| 076 000000  | 15.55  |
| 077 A000000 | N      |
| 078 000000  | N      |
| 080 C000000 | 0      |
| 081 B000000 | 0      |
| 082 B000000 | 0      |
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| 086 A020000 | 228    |
| 086 B010000 | 0      |
| 086 B020000 | 0      |
| 086 C010000 | 0      |
| 086 C020000 | 0      |
| 086 D010000 | 0      |
| 086 D020000 | 0      |
| 086 E010000 | 0      |
| 086 E020000 | 0      |

PAGE 9

|             |                   |
|-------------|-------------------|
| 086 F010000 | 0                 |
| 086 F020000 | 0                 |
| 087 A010000 | COMMON STOCK      |
| 087 A020000 | 67061U108         |
| 087 A030000 | NCL               |
| 088 A000000 | N                 |
| 088 B000000 | N                 |
| 088 C000000 | N                 |
| 088 D000000 | Y                 |
| SIGNATURE   | STEPHEN D. FOY    |
| TITLE       | V.P. & CONTROLLER |