

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-A
April 27, 2007

PAGE 1
000 A000000 02/28/2007
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
004 000000 N
005 000000 N
006 000000 N
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 ASSET MANAGEMENT
008 B000001 A
008 C000001 801-14147
008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
008 D040001 1286
012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60606
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
PAGE 2
015 A000001 STATE STREET BANK AND TRUST COMPANY
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02110
015 E010001 X

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018 000000 Y
 019 A000000 Y
 019 B000000 173
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 022 B000002 13-5674085
 022 C000002 9409
 022 D000002 0
 022 A000003 STONE & YOUNGBERG
 022 B000003 94-1052545
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 022 A000004 LEHMAN BROTHERS, INC
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 022 D000004 0
 022 A000005 E.J. DE LA ROSA
 022 B000005 95-4223441
 022 C000005 1818
 022 D000005 2349
 022 A000006 UBS
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 022 A000007 CITIGROUP
 022 B000007 13-3214963
 022 C000007 1268
 022 D000007 303
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 022 B000008 13-5033225
 PAGE 3
 022 C000008 0
 022 D000008 1087
 022 A000009 MORGAN STANLEY
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 023 C000000 25850
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| 028 | F010000 | 0 |
| 028 | F020000 | 0 |
| | PAGE 4 | |
| 028 | F030000 | 0 |
| 028 | F040000 | 0 |
| 028 | G010000 | 0 |
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| 048 | D010000 | 0 |
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| 048 | E020000 | 0.000 |
| 048 | F010000 | 0 |
| 048 | F020000 | 0.000 |
| 048 | G010000 | 0 |
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| 048 | H010000 | 0 |
| 048 | H020000 | 0.000 |
| 048 | I010000 | 0 |
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| 048 | J010000 | 0 |
| 048 | J020000 | 0.000 |
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062 F000000 0.0
062 G000000 0.0
062 H000000 0.0
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062 N000000 0.0
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063 B000000 5.8

PAGE 6

064 A000000 Y
064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
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070 A010000 Y
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070 B010000 N
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070 Q020000 N
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071 A000000 23663
071 B000000 20162
071 C000000 284013

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| 071 | D000000 | 7 |
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| 072 | D000000 | 0 |
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| 072 | W000000 | 145 |
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| 074 | M000000 | 844 |
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| 074 | Q000000 | 0 |
| 074 | R010000 | 0 |
| | PAGE | 8 |
| 074 | R020000 | 0 |
| 074 | R030000 | 0 |
| 074 | R040000 | 4092 |
| 074 | S000000 | 95000 |

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| | | |
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| 074 | T000000 | 192243 |
| 074 | U010000 | 12716 |
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| 074 | Y000000 | 13585 |
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| 075 | B000000 | 191248 |
| 076 | 000000 | 14.35 |
| 077 | A000000 | N |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | B000000 | 0 |
| 082 | B000000 | 0 |
| 083 | B000000 | 0 |
| 084 | B000000 | 0 |
| 086 | A010000 | 0 |
| 086 | A020000 | 0 |
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| 086 | C020000 | 0 |
| 086 | D010000 | 0 |
| 086 | D020000 | 0 |
| 086 | E010000 | 0 |
| 086 | E020000 | 0 |
| 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 | |