

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-B
April 29, 2010

PAGE 1
000 B000000 02/28/2010
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
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 022 A000002 JP MORGAN CHASE
 022 B000002 13-3224016
 022 C000002 4434
 022 D000002 0
 022 A000003 BARCLAYS BANK PLC
 022 B000003 13-4942190
 022 C000003 4171
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 022 A000004 JEFFERIES & CO
 022 B000004 95-2622900
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 022 A000005 UBS
 022 B000005 13-2638166
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 022 A000006 CANTOR FITZGERALD
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 022 B000007 59-1842344
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 022 D000007 2112
 022 A000008 PIPER JAFFRAY
 022 B000008 41-0953246
 PAGE 3
 022 C000008 1185
 022 D000008 0
 022 A000009 MORGAN STANLEY
 022 B000009 13-2655998
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| 028 | F010000 | 0 |
| 028 | F020000 | 0 |
| | PAGE 4 | |
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| | | |
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| 048 | J010000 | 0 |
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062 F000000 0.0
062 G000000 0.0
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062 M000000 0.0
062 N000000 0.0
062 O000000 152.2
062 P000000 0.0
062 Q000000 0.0
062 R000000 0.0
063 A000000 0
063 B000000 12.7

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064 A000000 Y
064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
069 000000 N
070 A010000 Y
070 A020000 N
070 B010000 N
070 B020000 N
070 C010000 Y
070 C020000 N
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070 Q020000 N
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070 R020000 N
071 A000000 22162
071 B000000 19256
071 C000000 261379

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071 D000000 7
 072 A000000 12
 072 B000000 14561
 072 C000000 0
 072 D000000 0

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072 E000000 0
 072 F000000 1667
 072 G000000 0
 072 H000000 0
 072 I000000 31
 072 J000000 53
 072 K000000 15
 072 L000000 29
 072 M000000 8
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 072 O000000 0
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 072 Q000000 0
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 074 O000000 1185
 074 P000000 131
 074 Q000000 0
 074 R010000 0

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074 R020000 0
 074 R030000 0
 074 R040000 25675
 074 S000000 79825

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| | | |
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| 074 | T000000 | 177169 |
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| 074 | V010000 | 13.99 |
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| 074 | Y000000 | 39010 |
| 075 | A000000 | 0 |
| 075 | B000000 | 170932 |
| 076 | 000000 | 12.72 |
| 077 | A000000 | Y |
| 077 | B000000 | Y |
| 077 | C000000 | Y |
| 077 | Q020000 | Y |
| 078 | 000000 | N |
| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | BERKLEY, GREAT AMERICAN, ST. PAUL & CNA |
| 080 | C000000 | 110000 |
| 081 | A000000 | Y |
| 081 | B000000 | 198 |
| 082 | A000000 | N |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
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| 084 | B000000 | 0 |
| 085 | A000000 | Y |
| 085 | B000000 | N |
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| 086 | A020000 | 0 |
| 086 | B010000 | 12 |
| 086 | B020000 | 122 |
| 086 | C010000 | 0 |
| 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 |
| | PAGE | 9 |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |