

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN  
Form NSAR-A  
October 30, 2009

PAGE 1  
000 A000000 08/31/2009  
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 | 197             |  |
| 019 | C000000 | NUVEENFUND      |  |
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| 020 | C000002 | 0               |  |
| 020 | C000003 | 0               |  |
| 020 | C000004 | 0               |  |
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| 020 | C000007 | 0               |  |
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| 020 | C000009 | 0               |  |
| 020 | C000010 | 0               |  |
| 021 | 000000  | 0               |  |
| 022 | A000001 | JP MORGAN CHASE |  |
| 022 | B000001 | 13-3224016      |  |
| 022 | C000001 | 4434            |  |
| 022 | D000001 | 0               |  |
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| 022 | C000008 | 0               |  |
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| 026 | F000000 | N               |  |
| 026 | G010000 | N               |  |
| 026 | G020000 | N               |  |
| 026 | H000000 | N               |  |
| 027 | 000000  | N               |  |
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| 028 | A020000 | 0               |  |
| 028 | A030000 | 0               |  |

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|     |         |       |
|-----|---------|-------|
| 028 | A040000 | 0     |
| 028 | B010000 | 0     |
| 028 | B020000 | 0     |
| 028 | B030000 | 0     |
| 028 | B040000 | 0     |
| 028 | C010000 | 0     |
| 028 | C020000 | 0     |
| 028 | C030000 | 0     |
| 028 | C040000 | 0     |
| 028 | D010000 | 0     |
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| 028 | D030000 | 0     |
| 028 | D040000 | 0     |
| 028 | E010000 | 0     |
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|     | PAGE 4  |       |
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| 046 | 000000  | N     |
| 047 | 000000  | N     |
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| 048 | C020000 | 0.000 |
| 048 | D010000 | 0     |
| 048 | D020000 | 0.000 |
| 048 | E010000 | 0     |
| 048 | E020000 | 0.000 |
| 048 | F010000 | 0     |

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|     |         |       |   |
|-----|---------|-------|---|
| 048 | F020000 | 0.000 |   |
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| 048 | G020000 | 0.000 |   |
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| 048 | H020000 | 0.000 |   |
| 048 | I010000 |       | 0 |
| 048 | I020000 | 0.000 |   |
| 048 | J010000 |       | 0 |
| 048 | J020000 | 0.000 |   |
| 048 | K010000 |       | 0 |
| 048 | K020000 | 0.000 |   |
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| 054 | C000000 | N     |   |
| 054 | D000000 | N     |   |
| 054 | E000000 | N     |   |
| 054 | F000000 | N     |   |
| 054 | G000000 | N     |   |
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| 054 | I000000 | N     |   |
|     | PAGE    | 5     |   |
| 054 | J000000 | Y     |   |
| 054 | K000000 | N     |   |
| 054 | L000000 | N     |   |
| 054 | M000000 | Y     |   |
| 054 | N000000 | N     |   |
| 054 | O000000 | Y     |   |
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| 055 | B000000 | N     |   |
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| 060 | A000000 | Y     |   |
| 060 | B000000 | Y     |   |
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| 062 | L000000 | 0.0   |   |
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| 062 | N000000 | 0.0   |   |
| 062 | O000000 | 152.4 |   |
| 062 | P000000 | 0.0   |   |
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| 062 | R000000 | 0.0   |   |
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| 063 | B000000 | 12.8  |   |
| 064 | A000000 | Y     |   |

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064 B000000 N  
 066 A000000 N  
 067 000000 N  
 068 A000000 N  
 068 B000000 N  
 069 000000 N  
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 070 A020000 N  
 070 B010000 N  
 070 B020000 N  
 070 C010000 Y  
 070 C020000 N  
 070 D010000 N  
 070 D020000 N  
 070 E010000 Y

PAGE 6

070 E020000 N  
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 070 F020000 N  
 070 G010000 Y  
 070 G020000 N  
 070 H010000 N  
 070 H020000 N  
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 070 J020000 N  
 070 K010000 N  
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 070 L020000 N  
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 070 O010000 Y  
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 070 P020000 N  
 070 Q010000 N  
 070 Q020000 N  
 070 R010000 N  
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 072 B000000 7473  
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 072 E000000 0  
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 072 H000000 0  
 072 I000000 16  
 072 J000000 29  
 072 K000000 9  
 072 L000000 19  
 072 M000000 4  
 072 N000000 0  
 072 O000000 0

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|             |    |
|-------------|----|
| 072 P000000 | 84 |
| 072 Q000000 | 0  |
| 072 R000000 | 9  |
| 072 S000000 | 3  |
| 072 T000000 | 0  |

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|               |        |
|---------------|--------|
| 072 U000000   | 0      |
| 072 V000000   | 0      |
| 072 W000000   | 99     |
| 072 X000000   | 1087   |
| 072 Y000000   | 0      |
| 072 Z000000   | 6386   |
| 072AA000000   | 2472   |
| 072BB000000   | 0      |
| 072CC010000   | 6249   |
| 072CC020000   | 0      |
| 072DD010000   | 4761   |
| 072DD020000   | 0      |
| 072EE000000   | 0      |
| 073 A010000   | 0.3760 |
| 073 A020000   | 0.0000 |
| 073 B000000   | 0.0000 |
| 073 C000000   | 0.0000 |
| 074 A000000   | 4715   |
| 074 B000000   | 0      |
| 074 C000000   | 0      |
| 074 D000000   | 263021 |
| 074 E000000   | 0      |
| 074 F000000   | 0      |
| 074 G000000   | 0      |
| 074 H000000   | 0      |
| 074 I000000   | 0      |
| 074 J000000   | 0      |
| 074 K000000   | 0      |
| 074 L000000   | 3531   |
| 074 M000000   | 64     |
| 074 N000000   | 271331 |
| 074 O000000   | 0      |
| 074 P000000   | 142    |
| 074 Q000000   | 0      |
| 074 R010000   | 0      |
| 074 R020000   | 0      |
| 074 R030000   | 0      |
| 074 R040000   | 18727  |
| 074 S000000   | 79825  |
| 074 T000000   | 172637 |
| 074 U010000   | 12663  |
| 074 U020000   | 0      |
| 074 V010000   | 13.63  |
| 074 V020000   | 0.00   |
| 074 W000000   | 0.0000 |
| 074 X000000   | 423    |
| 074 Y000000   | 54838  |
| 075 A000000   | 0      |
| 075 B000000   | 165105 |
| 076 000000    | 12.61  |
| 077 A000000 N |        |

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|              |   |
|--------------|---|
| 078 000000 N |   |
| 080 C000000  | 0 |
| 081 B000000  | 0 |
| 082 B000000  | 0 |

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|           |                   |              |
|-----------|-------------------|--------------|
| 083       | B000000           | 0            |
| 084       | B000000           | 0            |
| 086       | A010000           | 0            |
| 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            |
| 088       | D000000           | Y            |
| SIGNATURE | STEPHEN D. FOY    |              |
| TITLE     | V.P. & CONTROLLER |              |