

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-A
April 28, 2006

PAGE 1
000 A000000 02/28/2006
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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007 C010300 3
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007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 NUVEEN ASSET MANAGEMENT
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012 A000001 EQUISERVE INC.
PAGE 2
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO

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013 B020001 IL
013 B030001 60606
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 02110
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022 D000001 4678
022 A000002 JPMORGAN CHASE
022 B000002 13-3224016
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022 A000003 BANK OF AMERICA
022 B000003 56-2058405
022 C000003 2674
022 D000003 0
022 A000004 MORGAN STANLEY
PAGE 3
022 B000004 13-2655998
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022 A000005 SUTTER SECURITIES
022 B000005 68-0281016
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022 A000006 WACHOVIA
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022 A000007 US BANK
022 B000007 91-1157893
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| 054 | L000000 | N |
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| 054 | N000000 | N |
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| 055 | A000000 | N |

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| 070 | I020000 | N | |
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| 070 | J020000 | N | |
| 070 | K010000 | N | |
| 070 | K020000 | N | |
| 070 | L010000 | N | |
| 070 | L020000 | N | |
| 070 | M010000 | N | |
| 070 | M020000 | N | |

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| 074 R020000 | 0 |
| 074 R030000 | 0 |
| 074 R040000 | 493 |
| 074 S000000 | 95000 |
| 074 T000000 | 191484 |
| 074 U010000 | 12716 |
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| 074 V020000 | 0.00 |
| 074 W000000 | 0.0000 |
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| 082 B000000 | 0 |
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| 088 A000000 | N |
| | PAGE 9 |
| 088 B000000 | N |
| 088 C000000 | N |
| 088 D000000 | Y |
| SIGNATURE | STEPHEN D. FOY |
| TITLE | V.P. & CONTROLLER |