

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-B
October 27, 2005

PAGE 1
000 B000000 08/31/2005
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
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007 C010100 1
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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 B000001 13-3214963
 022 C000001 7563
 022 D000001 0
 022 A000002 RED CAPITAL MARKETS
 022 B000002 31-1078499
 022 C000002 0
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 022 A000003 RBC DOMINION SECURITIES
 022 B000003 13-5033225
 022 C000003 2876
 022 D000003 507
 022 A000004 LOOP CAPITAL MARKETS
 PAGE 3
 022 B000004 36-4164012
 022 C000004 3193
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 022 A000005 MERRILL LYNCH
 022 B000005 13-5674085
 022 C000005 0
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 022 A000006 BANK OF AMERICA
 022 B000006 56-2058405
 022 C000006 2694
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 022 A000007 E.J. DE LA ROSA & CO., INC.
 022 B000007 95-4223441
 022 C000007 2478
 022 D000007 0
 022 A000008 FIRST ALBANY CORP.

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022	B000008	14-1391446	
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054 K000000 N
054 L000000 N
054 M000000 Y
054 N000000 N
054 O000000 Y
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058 A000000 N
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PAGE 6
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070 J020000 N

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070 K010000 N
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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