

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  
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005 000000 N  
006 000000 N  
007 A000000 N  
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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  
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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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021 000000 0  
022 A000001 CITIGROUP GLOBAL MARKETS, INC.  
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  
022 D000004 0  
022 A000005 MERRILL LYNCH  
022 B000005 13-5674085  
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022 D000005 2725  
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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054	I000000	N
054	J000000	Y

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070	I020000	N	
070	J010000	Y	
070	J020000	N	

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070 K010000 N  
 070 K020000 N  
 070 L010000 N  
 070 L020000 N  
 070 M010000 N  
     PAGE 7  
 070 M020000 N  
 070 N010000 N  
 070 N020000 N  
 070 O010000 Y  
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078	000000	N
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080	B000000	QUANTA INDEMNITY, AIG, GREAT AMERICAN & CNA
080	C000000	100000
081	A000000	Y
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082	A000000	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