

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN  
Form NSAR-B  
October 28, 2004

PAGE 1  
000 B000000 08/31/2004  
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 811-7492  
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  
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007 A000000 N  
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007 C010100 1  
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007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
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008 A000001 NUVEEN ADVISORY CORP  
008 B000001 A  
008 C000001 801-12353  
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012 A000001 EQUISERVE INC.  
PAGE 2  
012 B000001 84-05925  
012 C010001 BOSTON  
012 C020001 MA  
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 02206  
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022 A000001 CITIGROUP GLOBAL MARKETS, INC.  
022 B000001 13-3214963  
022 C000001 15022  
022 D000001 7369  
022 A000002 BEAR STEARNS  
022 B000002 13-3604093  
022 C000002 7817  
022 D000002 10716  
022 A000003 STONE & YOUNGBERG  
022 B000003 94-1052545  
022 C000003 9484  
022 D000003 8528  
022 A000004 DAIN RAUSCHER  
PAGE 3  
022 B000004 41-0212020  
022 C000004 11003  
022 D000004 5124  
022 A000005 LEHMAN BROTHERS  
022 B000005 13-2518466  
022 C000005 10139  
022 D000005 4193  
022 A000006 JPMORGAN  
022 B000006 13-3224016  
022 C000006 6826  
022 D000006 4018  
022 A000007 A.G. EDWARDS  
022 B000007 43-0895447  
022 C000007 0  
022 D000007 6163  
022 A000008 MERRILL LYNCH

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022	B000008	13-5674085	
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PAGE 4

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054	F000000	N
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054	I000000	N
054	J000000	Y

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070	I010000	N	
070	I020000	N	
070	J010000	Y	
070	J020000	N	

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070 K010000 N  
 070 K020000 N  
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 070 L020000 N  
 070 M010000 N  
     PAGE 7  
 070 M020000 N  
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 070 N020000 N  
 070 O010000 Y  
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080	B000000	QUANTA INDEMNITY, AIG, GREAT AMERICAN, CNA
080	C000000	90000
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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