

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-B
October 24, 2006

PAGE 1
000 B000000 08/31/2006
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
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002 D010000 60606
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003 000000 N
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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
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 022 B000003 13-2639174
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 022 B000004 56-2058405
 022 C000004 3088
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 022 B000005 44-0522232
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 022 B000006 13-2655998
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 022 A000007 RYAN, BECK & CO
 022 B000007 22-1773796
 022 C000007 315
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 022 A000008 SUTTER SECURITIES
 022 B000008 68-0281016
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 022 C000008 687
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068 B000000 N
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071 A000000 38063

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071 B000000 40253
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072 B000000 13680

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074 O000000 5745
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080	B000000	AIG, GREAT AMERICAN, CNA & ST. PAUL
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087	A030000	NCL
088	A000000	N
088	B000000	N
088	C000000	N
	PAGE	9
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	