

NUVEEN INSURED CALIFORNIA PREMIUM INCOME MUNICIPAL FUND 2 IN
Form NSAR-B
April 29, 2010

PAGE 1
000 B000000 02/28/2010
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 A000000 N
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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
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 B000002 13-3224016
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 022 B000003 13-4942190
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 022 B000004 95-2622900
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 022 B000005 13-2638166
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 022 B000006 13-3680184
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 022 B000007 59-1842344
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 022 A000008 PIPER JAFFRAY
 022 B000008 41-0953246
 PAGE 3
 022 C000008 1185
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063 A000000 0
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064 A000000 Y
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066 A000000 N
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068 A000000 N
068 B000000 N
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070 A010000 Y
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070 R010000 N
070 R020000 N
071 A000000 22162
071 B000000 19256
071 C000000 261379

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071 D000000 7
072 A000000 12
072 B000000 14561
072 C000000 0
072 D000000 0

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074 O000000 1185
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074 Q000000 0
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074 R020000 0
074 R030000 0
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080	B000000	BERKLEY, GREAT AMERICAN, ST. PAUL & CNA
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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	