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Nuveen Core Equity Alpha Fund
Form NSAR-B
February 26, 2010

PAGE 1
000 B000000 12/31/2009
000 C000000 0001385763
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 CORE EQUITY ALPHA FUND
001 B000000 811-220003
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002 A000000 333 WEST WACKER DRIVE
002 B000000 CHICAGO
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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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008 C000001 801-14147
008 D010001 CHICAGO
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008 A000002 ENHANCED INVESTMENT TECHNOLOGIES (INTECH)
008 B000002 A
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008 D010002 PALM BEACH GARDENS
008 D020002 FL
008 D030002 33410
012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
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PAGE 2
013 A000001 PRICEWATERHOUSECOOPERS LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60606
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464

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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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020 A000001 DEUTSCHE BANK SECURITIES INC
020 B000001 13-2730828
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020 C000002 19
020 A000003 WEEDEN & CO
020 B000003 13-3364318
020 C000003 19
020 A000004 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC
020 B000004 13-5674085
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020 A000005 GOLDMAN SACHS & CO
020 B000005 13-5108880
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020 A000006 ROSENBLATT SECURITIES
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020 C000006 17
020 A000007 BNY BROKERAGE
020 B000007 13-3989198
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020 A000008 CAPITAL INSTITUTIONAL
020 B000008 75-1565705
020 C000008 15
020 A000009 GUZMAN & CO
020 B000009 59-2764363
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020 B000010 13-3443395
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PAGE 3
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022 B000003 13-3356934
022 C000003 18944
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022 C000004 16886
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054 E000000 N
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054 O000000 Y
055 A000000 Y
PAGE 6
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056 000000 Y
057 000000 N
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070	D020000	N	
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078 000000	N
PAGE 9	
080 A000000	CHUBB GROUP OF INSURANCE COMPANIES
080 B000000	BERKLEY, GREAT AMERICAN, ST. PAUL & CNA
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084 B000000	0
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087 A020000	67090X107
087 A030000	JCE
088 A000000	N
088 B000000	N
088 C000000	N
088 D000000	N
SIGNATURE	STEPHEN D. FOY
TITLE	V.P. & CONTROLLER