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Nuveen Core Equity Alpha Fund  
Form NSAR-B  
March 01, 2012

PAGE 1  
000 B000000 12/31/2011  
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  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
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007 C010600 6  
007 C010700 7  
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007 C010900 9  
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008 A000001 NUVEEN FUND ADVISORS  
008 B000001 A  
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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  
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012 A000001 EQUISERVE INC.  
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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 C000002 26  
020 A000003 UBS SECURITIES LLC  
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020 A000005 KNIGHT SECURITIES L.P.  
020 B000005 22-3660471  
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020 C000006 11  
020 A000007 JEFFERIES + COMPANY INC  
020 B000007 95-2622900  
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020 A000008 CAPITAL INSTITUTIONAL SVCS INC EQUITIES  
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PAGE 3  
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022 A000006 JEFFERIES & CO

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 022 A000009 CAPITAL INSTITUTIONAL  
 022 B000009 75-1565705  
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 022 A000010 SANFORD BERNSTEIN  
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054 E000000 N  
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054 G000000 N  
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055 A000000 Y  
055 B000000 N  
PAGE 6  
056 000000 Y  
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070 B020000 Y  
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070 D020000 N

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080 A000000	CHUBB GROUP OF INSURANCE COMPANIES
080 B000000	BERKLEY,GREAT AMERICAN,ST. PAUL, CNA & ZURICH
	PAGE 9
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081 B000000	238
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086	B020000	57
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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	