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Nuveen Core Equity Alpha Fund  
Form NSAR-B  
March 02, 2011

PAGE 1  
000 B000000 12/31/2010  
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  
007 C010800 8  
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007 C011000 10  
008 A000001 NUVEEN ASSET MANAGEMENT  
008 B000001 A  
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008 D010001 CHICAGO  
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008 D030001 60606  
008 D040001 1286  
008 A000002 ENHANCED INVESTMENT TECHNOLOGIES (INTECH)  
008 B000002 A  
008 C000002 801-60987  
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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019 B000000 244  
019 C000000 NUVEENFUND  
020 A000001 ROSENBLATT SECURITIES LLC  
020 C000001 40  
020 A000002 GUZMAN & CO  
020 C000002 36  
020 A000003 JEFFERIES & COMPANY INC  
020 B000003 95-2622900  
020 C000003 28  
020 A000004 INSTINET  
020 B000004 13-3443395  
020 C000004 23  
020 A000005 CREDIT SUISSE  
020 B000005 13-5659485  
020 C000005 17  
020 A000006 WEEDEN & CO  
020 B000006 13-3364318  
020 C000006 15  
020 A000007 MERRILL LYNCH  
020 B000007 13-5674085  
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020 A000008 DEUTSCHE BANK SECURITIES INC  
020 B000008 13-2730828  
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020 A000009 BNY CONVERGEX  
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PAGE 3  
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022 A000003 JEFFERIES & CO  
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022 C000003 30923  
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022 A000004 SUQSUEHANNA TRUST  
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054 E000000 N  
054 F000000 N  
054 G000000 N  
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055 B000000 N  
056 000000 Y  
057 000000 N  
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070 E020000 N

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070	F010000	Y	
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072DD010000	17631
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078 000000	N
080 A000000	CHUBB GROUP OF INSURANCE COMPANIES
080 B000000	BERKLEY, GREAT AMERICAN, ST.PAUL,CNA & ZURICH
080 C000000	110000
	PAGE 9
081 A000000	Y
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086	C010000	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	