

Nuveen Core Equity Alpha Fund  
Form N-CSRS  
September 08, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM N-CSR  
CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT INVESTMENT  
COMPANIES  
Investment Company Act file number 811-22003  
Nuveen Core Equity Alpha Fund**

(Exact name of registrant as specified in charter)

Nuveen Investments  
333 West Wacker Drive  
Chicago, IL 60606

(Address of principal executive offices) (Zip code)

Kevin J. McCarthy  
Nuveen Investments  
333 West Wacker Drive  
Chicago, IL 60606

(Name and address of agent for service)

Registrant's telephone number, including area code: (312) 917-7700

Date of fiscal year end: December 31

Date of reporting period: June 30, 2010

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles. A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. SS. 3507.

---

**ITEM 1. REPORTS TO SHAREHOLDERS**

Closed-End Funds

Nuveen Investments

Closed-End Funds

*Mathematically-driven investment strategy that seeks to generate excess risk-adjusted returns*

Semi-Annual Report

June 30, 2010

**Nuveen Core Equity**

**Alpha Fund**

**JCE**

---

## **NUVEEN INVESTMENTS ANNOUNCES STRATEGIC COMBINATION WITH FAF ADVISORS**

On July 29, 2010, Nuveen Investments, Inc. announced that U.S. Bancorp will receive a 9.5% stake in Nuveen Investments and cash consideration in exchange for the long-term asset business of U.S. Bancorp's FAF Advisors (FAF). Nuveen Investments is the parent of Nuveen Asset Management (NAM), the investment adviser for the Funds included in this report.

FAF Advisors, which currently manages about \$25 billion of long-term assets and serves as the advisor of the First American Funds, will be combined with NAM, which currently manages about \$75 billion in municipal fixed income assets. Upon completion of the transaction, Nuveen Investments, which currently manages about \$150 billion of assets across several high-quality affiliates, will manage a combined total of about \$175 billion in institutional and retail assets.

**This combination will not affect the investment objectives, strategies or policies of this Fund.** Over time, Nuveen Investments expects that the combination will provide even more ways to meet the needs of investors who work with financial advisors and consultants by enhancing the multi-boutique model of Nuveen Investments, which also includes highly respected investment teams at NWQ Investment Management, Santa Barbara Asset Management, Symphony Asset Management, Tradewinds Global Investors, Winslow Capital and Nuveen HydePark.

The transaction is expected to close late in 2010, subject to customary conditions.

---

Chairman's  
Letter to Shareholders

**Dear Shareholder,**

The economic environment in which your Fund operates reflects continuing but uneven economic recovery. The U.S. and other major industrial countries are experiencing steady but comparatively low levels of economic growth, while emerging market countries are seeing a resumption of relatively strong economic expansion. The potential impact of steps being considered by many governments to counteract the extraordinary governmental spending and credit expansion to deal with the recent financial and economic crisis is injecting uncertainty into global financial markets. The implications for future tax rates, government spending, interest rates and the pace of economic recovery in the U.S. and other leading economies are extremely difficult to predict at the present time. The long term health of the global economy depends on restoring some measure of fiscal discipline around the world, but since all of the corrective steps require economic pain, it is not surprising that governments are reluctant to undertake them.

In the near term, governments remain committed to furthering economic recovery and realizing a meaningful reduction in their national unemployment rates. Such an environment should produce continued economic growth and, consequently, attractive investment opportunities. Over the longer term, the larger uncertainty mentioned earlier carries the risk of unexpected potholes in the road to sustained recovery. For this reason, Nuveen's investment management teams are working hard to balance return and risk by building well-diversified portfolios, among other strategies. I encourage you to read the following commentary on the management of your Fund. As always, I also encourage you to contact your financial consultant if you have any questions about your Nuveen Fund investment. Please consult the Nuveen website for the most recent information on your Nuveen Fund at: [www.nuveen.com](http://www.nuveen.com).

On behalf of the other members of your Fund's Board, we look forward to continuing to earn your trust in the months and years ahead.

Sincerely,

Robert P. Bremner  
Chairman of the Board  
August 17, 2010

Nuveen Investments 3

---

Portfolio Managers Comments

Nuveen Core Equity Alpha Fund (JCE)

*The equity portion of the Nuveen Core Equity Alpha Fund (JCE) is managed by INTECH Investment Management LLC (INTECH), an independently managed subsidiary of Janus Capital Group Inc. INTECH's Co-Chief Investment Officers, Dr. E. Robert Fernholz, PhD, and Dr. Adrian Banner lead a portfolio management team that also includes Joseph Runnels, CFA.*

*The Fund also employs a call option strategy managed by Nuveen Asset Management. Rob Guttshow, CFA, and John Gambla, CFA, oversee this program.*

*Here Drs. Fernholz and Banner and Mr. Runnels, along with Rob Guttshow and John Gambla, talk about their management strategies and the performance of the Fund for the six-month period ended June 30, 2010.*

**Over this period, what key strategies were used to manage the Fund?**

**Certain statements in this report are forward-looking statements. Discussions of specific investments are for illustration only and are not intended as recommendations of individual investments. The forward-looking statements and other views expressed herein are those of the portfolio managers as of the date of this report. Actual future results or occurrences may differ significantly from those anticipated in any forward-looking statements and the views expressed herein are subject to change at any time, due to numerous market and other factors. The Fund disclaims any obligation to update publicly or revise any forward-looking statements or views expressed herein.**

The investment objective of the Fund is to provide an attractive level of total return, primarily through long term capital appreciation and secondarily through income and gains. The Fund invests in a portfolio of common stocks selected from among the stocks comprising the S&P 500 Index, using a proprietary mathematical process designed by INTECH, and also employs innovative risk reduction techniques.

The Fund also employs an option strategy that seeks to enhance the Fund's risk-adjusted performance over time through a meaningful reduction in the volatility of the Fund's returns relative to the returns of the S&P 500 Index. The Fund expects to write custom basket call options with a notional value of up to 50% of the value of the equity portfolio.

The goal of the Fund's equity portfolio is to produce long-term returns in excess of the S&P 500 Stock Index with an equal or lesser amount of risk. The continued market uncertainty during this period reconfirmed the importance of disciplined risk management, which is at the heart of INTECH's investment process. The firm's core risk controls are focused on minimizing the volatility of excess returns relative to the S&P 500 Index, so that any excess return is as consistent as possible and any relative underperformance is limited in magnitude and duration. We believe this helps minimize tracking error vis a vis the S&P 500 Index during periods of short-term market instability.

## Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

INTECH seeks to generate excess returns by harnessing the natural volatility of stock prices to build a potentially more efficient portfolio than the S&P 500 Index. INTECH's investment process focuses solely on relative volatility and correlation. Specifically the process searches for stocks with high relative volatility and low correlation attempting to combine stocks in a manner in which the opportunity to outperform the benchmark

### 4 Nuveen Investments

---

index exists with risk equal to or lower than that of the benchmark index. Within specific risk controls, INTECH continues to structure the portfolio to attempt to overweight stocks with high relative volatility and underweight stocks with low relative volatility, while keeping tracking error low. The actual positioning of the portfolio from a sector and stock specific standpoint is a residual of the process and the rationale for over and underweighted positions is a function of stocks' relative volatility and correlation characteristics in aggregate.

Because INTECH's process does not forecast the direction of stock prices, equity holdings that are overweighted or underweighted relative to the index are expected to beat the benchmark in approximately equal proportions over time.

While INTECH does not employ fundamental analysis in the management of the equity portfolio, fundamentals can have a significant impact on the general direction of the market in which we participate. As stock prices moved naturally throughout the period, we continued to implement our mathematical process in a disciplined and precise manner in an effort to maintain a more efficient portfolio than the S&P 500 Index, without increasing relative risk. While other factors may influence performance over the short term, we believe that the consistent application of our process will help long-term performance.

After the close of this reporting period, the Fund's Board of Trustees approved minor changes to the investment policies of the equity portfolio strategy of the Fund. Specifically, the Board approved a change to the Fund's non-fundamental investment policy to provide that, under normal market circumstances, the equity portfolio will consist of a diversified portfolio of 150 to 450 common stocks included in the S&P 500 Index. The changes are a result of enhancements to INTECH's mathematical portfolio construction process. The turnover in the portfolio (measured in terms of total dollar volume of stock trading) is estimated to range between 70% and 100% (versus the previous 80% and 120%) per year. The expected investment outcomes including excess return and tracking error targets have not changed as a result of this portfolio engineering enhancement but the portfolio is expected to have a lower weighted average market capitalization.

The Fund also employs an option strategy that seeks to enhance its risk-adjusted returns over time through a meaningful reduction in the volatility of the Fund's returns relative to the returns of the S&P 500 Index. Under normal market circumstances, the Fund expects to write (sell) custom basket call options with a notional value of up to 50% of the value of the equity portfolio. During this period, the sale of equity call options was used to generate cash flow that could be used to partially offset equity portfolio losses in certain situations.

**How did the Fund perform over this six-month period?**

The performance of JCE, as well as a widely followed equity index and a comparative index, is presented in the accompanying table.

**Average Annual Total Returns on Common Share Net Asset Value**

For periods ended 6/30/10

	<b>6-Month</b>	<b>1-Year</b>	<b>Since Inception<sup>1</sup></b>
JCE	-5.61%	14.18%	-5.10%
S&P 500 Index <sup>2</sup>	-6.65%	14.43%	-7.37%
Comparative Index <sup>3</sup>	-7.95%	10.22%	-5.86%

Six-month returns are cumulative; all other returns are annualized.

For the six-month period ended June 30, 2010, the Fund generated a negative return, but outperformed both the S&P 500 Index and its comparative index.

Since INTECH uses a purely portfolio-theoretic methodology, we do not specifically select stocks or overweight sectors in response to market conditions or expectations. Instead, we modify the Fund’s equity holdings in an attempt to construct a portfolio that is slightly more efficient than the S&P 500 Index by using an optimization program that analyzes a stock’s relative volatility and its price correlation with other equities. Since the sector structure of the market is not taken into account in our methodology, any sector underweights or overweights are likely to be coincidental.

INTECH’s relative performance is typically impacted by the market’s relative volatility, structure and size (market diversity). In the first six months of 2010, the U.S. stock market continued to exhibit more normal patterns of relative volatility, which were relatively beneficial to INTECH’s investment process.

Size (market diversity) is a measure of how capital is distributed among stocks in a market or an index. The relationship between the market-cap size of stocks (small vs. large) affects the relative performance of all managers. Since INTECH’s strategies tend to overweight smaller stocks and underweight larger stocks in a large-cap index, increasing diversity (i.e., relatively more investment dollars going into relatively smaller market-cap stocks), which the U.S. equity market experienced in the first half of 2010, tended to benefit INTECH’s relative performance.

Past performance is not predictive of future results. Current performance may be higher or lower than the data shown. Returns do not reflect the deduction of taxes that shareholders may have to pay on Fund distributions or upon the sale of Fund shares.

For additional information, see the Performance Overview in this report.

1 JCE since inception returns are as of 3/27/07. Index since inception returns are as of 3/31/07.

2 The S&P 500 Index is an unmanaged Index generally considered representative of the U.S. Stock Market. Index returns do not include the effects of sales charges or management fees. It is not possible to invest directly in an index.



3 JCE's Comparative Index is a blend of returns consisting of 1) 50% of the S&P 500 Index and 2) 50% of the CBOE S&P 500 BuyWrite Index (BXM) which is a passive total return index based on selling the near-term, at-the-money S&P 500 Index (SPX) call option against the S&P 500 Index portfolio each month, on the day the current contract expires. Index returns do not include the effects of sales charges or management fees. It is not possible to invest directly in an index.

Over this six-month period, the Fund's overweight in health care and consumer staples positively contributed to performance. However, the Fund's underweight to industrials versus the S&P 500 Index dragged slightly on relative performance.

While the cash flow generated by the sale of call options did help to mitigate some of the risk inherent in the Fund's portfolio, these inflows were not sufficient to prevent the Fund from posting a negative overall return for the period.

6 Nuveen Investments

---

Distribution and  
Share Price Information

The following information regarding your Fund's distributions is current as of June 30, 2010, and likely will vary over time based on the Fund's investment activities and portfolio investment value changes.

During the six-month reporting period, the Fund did not make any changes to its quarterly distribution to shareholders. Some of the important factors affecting the amount and composition of these distributions are summarized below.

The Fund has a managed distribution program. The goal of this program is to provide shareholders with relatively consistent and predictable cash flow by systematically converting the Fund's expected long-term return potential into regular distributions. As a result, regular distributions throughout the year are likely to include a portion of expected long-term gains (both realized and unrealized), along with net investment income.

Important points to understand about a managed distribution program are:

The Fund seeks to establish a relatively stable distribution rate that roughly corresponds to the projected total return from its investment strategy over an extended period of time. However, you should not draw any conclusions about the Fund's past or future investment performance from its current distribution rate.

Actual returns will differ from projected long-term returns (and therefore the Fund's distribution rate), at least over shorter time periods. Over a specific timeframe, the difference between actual returns and total distributions will be reflected in an increasing (returns exceed distributions) or a decreasing (distributions exceed returns) Fund net asset value.

Each distribution is expected to be paid from some or all of the following sources:

- net investment income (regular interest and dividends),
- realized capital gains, and
- unrealized gains, or, in certain cases, a return of principal (non-taxable distributions).

A non-taxable distribution is a payment of a portion of the Fund's capital. When the Fund's returns exceed distributions, it may represent portfolio gains generated, but not realized as a taxable capital gain. In periods when the Fund's returns fall short of distributions, the shortfall will represent a portion of your original principal, unless the shortfall is offset during other time periods over the life of your investment (previous or subsequent) when the Fund's total return exceeds distributions.

Because distribution source estimates are updated during the year based on the Fund's performance and forecast for its current fiscal year (which is the calendar year for the Fund), estimates on the nature of your distributions provided at the time the distributions are paid may differ from both the tax information reported to you in your Fund's



IRS Form 1099 statement provided at year end, as well as the ultimate economic sources of distributions over the life of your investment.

The following table provides estimated information regarding the Fund's distributions and total return performance for the six months ended June 30, 2010. The distribution information is presented on a tax basis rather than a generally accepted accounting principles (GAAP) basis. This information is intended to help you better understand whether the Fund's returns for the specified time period were sufficient to meet the Fund's distributions.

<b>As of 6/30/10</b>	<b>JCE</b>
Inception date	3/27/07
Six months ended June 30, 2010:	
Per share distribution:	
From net investment income	\$0.04
From realized capital gains	0.52
Return of capital	0.00
Total per share distribution	\$0.56
Annualized distribution rate on NAV	9.40%
Average annual total returns:	
Six-Month (Cumulative) on NAV	-5.61%
1-Year on NAV	14.18%
Since Inception on NAV	-5.10%

### Share Repurchases and Share Price Information

As of June 30, 2010, and since the inception of the Fund's repurchase program, the Fund has cumulatively repurchased shares as shown in the accompanying table.

Shares Repurchased	% of Outstanding Shares
444,800	2.8%

During the six-month reporting period, the Fund repurchased its shares at a weighted average price and a weighted average discount per share as shown in the accompanying table.

Shares Repurchased	Weighted Average Price Per Share Repurchased	Weighted Average Discount Per Share Repurchased
7,100	\$10.36	23.38%

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

As of June 30, 2010, the Fund was trading at a -3.27% discount to its net asset value, compared with an average discount of -8.61% for the six-month period.

8 Nuveen Investments

---

**JCE**  
Performance  
OVERVIEW

Nuveen Core Equity Alpha Fund

June 30, 2010

**Fund Snapshot**

Share Price		\$11.52
Net Asset Value		\$11.91
Premium/(Discount) to NAV		-3.27%
Current Distribution Rate <sup>1</sup>		9.72%
Net Assets (\$000)		\$190,929

**Average Annual Total Return**  
(Inception 3/27/07)

	<b>On Share Price</b>	<b>On NAV</b>
6-Month (Cumulative)	-1.18%	-5.61%
1-Year	30.23%	14.18%
Since Inception	-6.30%	-5.10%

**Portfolio Composition**

(as a % of total investments)<sup>2</sup>

Computers & Peripherals	6.8%
Health Care Providers & Services	6.7%
Pharmaceuticals	6.4%
Oil, Gas & Consumable Fuels	5.7%
Food Products	4.0%
IT Services	3.9%
Health Care Equipment & Supplies	3.9%
Software	3.9%

Beverages	2.9%
Industrial Conglomerates	2.8%
Commercial Banks	2.6%
Diversified Telecommunication Services	2.5%
Media	2.3%
Multi-Utilities	2.2%
Internet Software & Services	2.2%
Communications Equipment	2.1%
Insurance	2.0%
Household Products	2.0%
Semiconductors & Equipment	1.9%
Internet & Catalog Retail	1.9%
Aerospace & Defense	1.8%
Specialty Retail	1.7%
Tobacco	1.5%
Household Durables	1.4%
Short-Term Investments	5.3%
Other	19.6%

**Portfolio Allocation (as a % of total investments)<sup>2</sup>**

**2009-2010 Distributions Per Share**

**Share Price Performance Weekly Closing Price**

**1** Current Distribution Rate is based on the Fund's current annualized quarterly distribution divided by the Fund's current market price. The Fund's quarterly distributions to its shareholders may be comprised of ordinary income, net realized capital gains and, if at the end of the calendar year the Fund's cumulative net ordinary income and net realized gains are less than the amount of the Fund's distributions, a return of capital for tax purposes.

2 Excluding investments in derivatives.

Nuveen Investments 9

---



Shareholder Meeting Report

The annual meeting of shareholders was held in the offices of Nuveen Investments on April 6, 2010; at this meeting the shareholders were asked to vote on the election of Board Members.

	<b>JCE</b>
	Common Shares
<b>Approval of the Board Members was reached as follows:</b>	
William C. Hunter	
For	13,997,056
Withhold	502,611
Total	14,499,667
Judith M. Stockdale	
For	13,974,177
Withhold	525,490
Total	14,499,667
Carole E. Stone	
For	13,970,249
Withhold	529,418
Total	14,499,667

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

JCE Nuveen Core Equity Alpha Fund  
Portfolio of INVESTMENTS

June 30, 2010 (Unaudited)

Shares	Description (1)	Value
	<b>Common Stocks 96.6%</b>	
	<b>Aerospace &amp; Defense 1.8%</b>	
4,100	Boeing Company	\$ 257,275
4,500	General Dynamics Corporation	263,520
7,400	Goodrich Corporation	490,250
800	Honeywell International Inc.	31,224
500	L-3 Communications Holdings, Inc.	35,420
2,100	Northrop Grumman Corporation	114,324
7,700	Precision Castparts Corporation	792,484
2,400	Raytheon Company	116,136
10,200	Rockwell Collins, Inc.	541,926
12,000	United Technologies Corporation	778,920
	Total Aerospace & Defense	3,421,479
	<b>Air Freight &amp; Logistics 0.5%</b>	
12,400	FedEx Corporation	869,364
	<b>Airlines 0.9%</b>	
147,900	Southwest Airlines Co.	1,643,169
	<b>Auto Components 0.1%</b>	
6,800	Johnson Controls, Inc.	182,716
	<b>Automobiles 0.6%</b>	
105,300	Ford Motor Company, (2)	1,061,424
	<b>Beverages 3.0%</b>	
700	Brown-Forman Corporation	40,061
42,800	Coca-Cola Company	2,145,136

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

12,700	Coca-Cola Enterprises Inc.	328,422
31,000	Constellation Brands, Inc., Class A, (2)	484,220
31,400	Dr. Pepper Snapple Group, (2)	1,174,046
24,974	PepsiCo, Inc.	1,522,165
	Total Beverages	5,694,050

**Biotechnology 0.4%**

6,400	Amgen Inc., (2)	336,640
7,100	Celgene Corporation, (2)	360,822
2,200	Cephalon, Inc., (2)	124,850
	Total Biotechnology	822,312

**Capital Markets 1.2%**

13,800	Ameriprise Financial, Inc.	498,594
15,200	Franklin Resources, Inc.	1,310,088
3,000	Goldman Sachs Group, Inc.	393,810
300	T. Rowe Price Group Inc.	13,317
	Total Capital Markets	2,215,809

**Chemicals 1.3%**

7,200	Air Products & Chemicals Inc.	466,632
2,000	Airgas, Inc.	124,400
400	CF Industries Holdings, Inc.	25,380
28,300	Dow Chemical Company	671,276
1,900	E.I. Du Pont de Nemours and Company	65,721
2,900	Eastman Chemical Company	154,744
900	International Flavors & Fragrances Inc.	38,178
13,900	PPG Industries, Inc.	839,699
	Total Chemicals	2,386,030

**Commercial Banks 2.7%**

10,600	BB&T Corporation	278,886
19,100	Comerica Incorporated	703,453
86,500	Fifth Third Bancorp.	1,063,085
2,500	Huntington BancShares Inc.	13,850
7,600	M&T Bank Corporation	645,620
13,300	PNC Financial Services Group, Inc.	751,450

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

JCE Nuveen Core Equity Alpha Fund (continued)  
Portfolio of INVESTMENTS June 30, 2010 (Unaudited)

Shares	Description (1)	Value
	<b>Commercial Banks (continued)</b>	
74,600	Regions Financial Corporation	\$ 490,868
4,900	SunTrust Banks, Inc.	114,170
8,200	U.S. Bancorp	183,270
31,950	Wells Fargo & Company	817,920
1,500	Zions Bancorporation	32,355
	Total Commercial Banks	5,094,927
	<b>Commercial Services &amp; Supplies 0.5%</b>	
8,700	Avery Dennison Corporation	279,531
37,900	R.R. Donnelley & Sons Company	620,423
1,600	Waste Management, Inc.	50,064
	Total Commercial Services & Supplies	950,018
	<b>Communications Equipment 2.1%</b>	
118,400	Cisco Systems, Inc., (2)	2,523,104
25,300	Harris Corporation	1,053,745
14,700	JDS Uniphase Corporation, (2)	144,648
49,900	Motorola, Inc., (2)	325,348
700	QUALCOMM, Inc.	22,988
	Total Communications Equipment	4,069,833
	<b>Computers &amp; Peripherals 6.9%</b>	
20,400	Apple, Inc., (2)	5,131,212
22,300	Dell Inc., (2)	268,938
25,600	EMC Corporation, (2)	468,480
72,600	Hewlett-Packard Company	3,142,128
14,400	Lexmark International, Inc., Class A, (2)	475,632
47,200	Network Appliance Inc., (2)	1,761,032
14,300	QLogic Corporation, (2)	237,666
13,300	SanDisk Corporation, (2)	559,531
13,600	Teradata Corporation, (2)	414,528
25,300	Western Digital Corporation, (2)	763,048

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

	Total Computers & Peripherals	13,222,195
	<b>Consumer Finance 1.1%</b>	
33,300	American Express Company	1,322,010
2,300	Capital One Financial Corporation	92,690
32,600	Discover Financial Services	455,748
22,600	SLM Corporation, (2)	234,814
	Total Consumer Finance	2,105,262
	<b>Diversified Consumer Services 0.4%</b>	
11,300	Devry, Inc.	593,137
14,200	H & R Block Inc.	222,798
	Total Diversified Consumer Services	815,935
	<b>Diversified Financial Services 1.3%</b>	
58,600	Bank of America Corporation	842,082
300	CME Group, Inc.	84,465
41,705	JPMorgan Chase & Co.	1,526,820
	Total Diversified Financial Services	2,453,367
	<b>Diversified Telecommunication Services 2.5%</b>	
170,600	AT&T Inc.	4,126,814
16,528	CenturyTel, Inc.	550,548
14,900	Windstream Corporation	157,344
	Total Diversified Telecommunication Services	4,834,706
	<b>Electric Utilities 0.9%</b>	
10,800	American Electric Power Company, Inc.	348,840
16,600	Duke Energy Corporation	265,600
41,600	Pepco Holdings, Inc.	652,288
11,100	Pinnacle West Capital Corporation	403,596
	Total Electric Utilities	1,670,324

Shares	Description (1)	Value
	<b>Electrical Equipment 0.6%</b>	
1,400	Emerson Electric Company	\$ 61,166
20,600	Rockwell Automation, Inc.	1,011,254
	Total Electrical Equipment	1,072,420
	<b>Electronic Equipment &amp; Instruments 1.3%</b>	
65,400	Agilent Technologies, Inc., (2)	1,859,322
300	Amphenol Corporation, Class A	11,784
8,400	FLIR Systems Inc., (2)	244,356
30,100	Jabil Circuit Inc.	400,330
	Total Electronic Equipment & Instruments	2,515,792
	<b>Energy Equipment &amp; Services 0.6%</b>	
2,127	Baker Hughes Incorporated	88,419
3,200	Cooper Cameron Corporation, (2)	104,064
100	FMC Technologies Inc., (2)	5,266
15,300	Halliburton Company	375,615
9,500	Schlumberger Limited	525,730
1,600	Smith International, Inc.	60,240
	Total Energy Equipment & Services	1,159,334
	<b>Food &amp; Staples Retailing 1.2%</b>	
11,700	Costco Wholesale Corporation	641,511
2,000	Safeway Inc.	39,320
3,100	Sysco Corporation	88,567
21,500	Walgreen Co.	574,050
11,200	Wal-Mart Stores, Inc.	538,384
13,400	Whole Foods Market, Inc., (2)	482,668
	Total Food & Staples Retailing	2,364,500
	<b>Food Products 4.0%</b>	
11,600	Campbell Soup Company	415,628
9,000	ConAgra Foods, Inc.	209,880
43,800	General Mills, Inc.	1,555,776
8,200	H.J. Heinz Company	354,404
19,500	JM Smucker Company	1,174,290

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

13,900	Kellogg Company	699,170
9,400	Kraft Foods Inc.	263,200
1,900	McCormick & Company, Incorporated	72,124
33,500	Mead Johnson Nutrition Company, Class A Shares	1,679,020
82,700	Sara Lee Corporation	1,166,070
8,600	Tyson Foods, Inc., Class A	140,954

Total Food Products 7,730,516

**Gas Utilities 0.5%**

4,100	Nicor Inc.	166,050
17,800	ONEOK, Inc.	769,850

Total Gas Utilities 935,900

**Health Care Equipment & Supplies 4.0%**

3,500	Baxter International, Inc.	142,240
29,100	CareFusion Corporation, (2)	660,570
27,900	Hospira Inc., (2)	1,602,855
6,200	Intuitive Surgical, Inc., (2)	1,956,844
21,200	Medtronic, Inc.	768,924
20,000	Stryker Corporation	1,001,200
13,900	Varian Medical Systems, Inc., (2)	726,692
13,200	Zimmer Holdings, Inc., (2)	713,460

Total Health Care Equipment & Supplies 7,572,785

**Health Care Providers & Services 6.8%**

6,900	Aetna Inc.	182,022
37,500	AmerisourceBergen Corporation	1,190,625
37,000	Cardinal Health, Inc.	1,243,570
46,800	CIGNA Corporation	1,453,608
21,300	Coventry Health Care, Inc., (2)	376,584
15,300	Davita Inc., (2)	955,332
25,200	Express Scripts, Inc., (2)	1,184,904

Nuveen Investments 13

JCE Nuveen Core Equity Alpha Fund (continued)  
Portfolio of INVESTMENTS June 30, 2010 (Unaudited)

Shares	Description (1)	Value
	<b>Health Care Providers &amp; Services (continued)</b>	
25,100	Humana Inc., (2)	\$ 1,146,317
30,700	McKesson HBOC Inc.	2,061,812
23,300	Medco Health Solutions, Inc., (2)	1,283,364
13,700	Patterson Companies, Inc., (2)	390,861
87,700	Tenet Healthcare Corporation, (2)	380,618
11,800	UnitedHealth Group Incorporated	335,120
17,800	Wellpoint Inc., (2)	870,954
	Total Health Care Providers & Services	13,055,691
	<b>Health Care Technology 0.1%</b>	
2,400	Cerner Corporation, (2)	182,136
	<b>Hotels, Restaurants &amp; Leisure 1.1%</b>	
4,100	McDonald's Corporation	270,067
52,700	Starbucks Corporation, (2)	1,280,610
1,900	Starwood Hotels & Resorts Worldwide, Inc.	78,717
25,200	Wyndham Worldwide Corporation	507,528
	Total Hotels, Restaurants & Leisure	2,136,922
	<b>Household Durables 1.4%</b>	
16,000	Harman International Industries Inc., (2)	478,240
6,400	Leggett and Platt Inc.	128,384
21,100	Newell Rubbermaid Inc.	308,904
13,187	Black & Decker Inc.	666,207
12,700	Whirlpool Corporation	1,115,314
	Total Household Durables	2,697,049
	<b>Household Products 2.0%</b>	
8,100	Colgate-Palmolive Company	637,956
2,700	Kimberly-Clark Corporation	163,701
50,300	Procter & Gamble Company	3,016,994



	Total Household Products	3,818,651
	<b>Independent Power Producers &amp; Energy Traders 0.4%</b>	
53,200	AES Corporation, (2)	491,568
10,300	Constellation Energy Group	332,175
	Total Independent Power Producers & Energy Traders	823,743
	<b>Industrial Conglomerates 2.8%</b>	
20,900	3M Co.	1,650,891
212,600	General Electric Company	3,065,692
40,200	Textron Inc.	682,194
	Total Industrial Conglomerates	5,398,777
	<b>Insurance 2.0%</b>	
11,600	AFLAC Incorporated	494,972
1,000	Allstate Corporation	28,730
200	American International Group, (2)	6,888
100	Assurant Inc.	3,470
8,131	Berkshire Hathaway Inc., Class B, (2)	647,959
1,000	Chubb Corporation	50,010
74,400	Genworth Financial Inc., Class A, (2)	972,408
7,800	Hartford Financial Services Group, Inc.	172,614
17,200	Loews Corporation	572,932
4,000	Travelers Companies, Inc.	197,000
45,400	XL Capital Ltd, Class A	726,854
	Total Insurance	3,873,837
	<b>Internet &amp; Catalog Retail 1.9%</b>	
16,400	Amazon.com, Inc., (2)	1,791,864
16,300	Expedia, Inc., (2)	306,114
8,800	Priceline.com Incorporated, (2)	1,553,552
	Total Internet & Catalog Retail	3,651,530

Shares	Description (1)	Value
	<b>Internet Software &amp; Services 2.2%</b>	
5,200	Akamai Technologies, Inc., (2)	\$ 210,964
63,600	eBay Inc., (2)	1,247,196
6,300	Google Inc., Class A, (2)	2,803,185
	Total Internet Software & Services	4,261,345
	<b>IT Services 4.0%</b>	
48,300	Cognizant Technology Solutions Corporation, Class A, (2)	2,417,898
10,800	Computer Sciences Corporation, (2)	488,700
7,400	Fidelity National Information Services	198,468
28,300	International Business Machines Corporation (IBM)	3,494,484
1,200	MasterCard, Inc.	239,436
800	Total System Services Inc.	10,880
10,400	Visa Inc.	735,800
	Total IT Services	7,585,666
	<b>Leisure Equipment &amp; Products 0.3%</b>	
34,200	Eastman Kodak Company, (2)	148,428
8,200	Hasbro, Inc.	337,020
3,000	Mattel, Inc.	63,480
	Total Leisure Equipment & Products	548,928
	<b>Life Sciences Tools &amp; Services 0.8%</b>	
16,600	Life Technologies Corporation, (2)	784,350
10,300	Perkinelmer Inc.	212,901
1,600	Thermo Fisher Scientific, Inc., (2)	78,480
8,300	Waters Corporation, (2)	537,010
	Total Life Sciences Tools & Services	1,612,741
	<b>Machinery 0.9%</b>	
19,800	Caterpillar Inc.	1,189,386
4,800	Eaton Corporation	314,112
4,300	Illinois Tool Works, Inc.	177,504
1,300	Pall Corporation	44,681

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

Total Machinery		1,725,683
<b>Media 2.3%</b>		
7,400	CBS Corporation, Class B	95,682
9,500	Comcast Corporation, Class A	165,015
3,100	DIRECTV Group, Inc., (2)	105,152
5,800	Discovery Communications Inc., Class A Shares, (2)	207,118
41,800	Gannett Company Inc.	562,628
600	McGraw-Hill Companies, Inc.	16,884
13,000	New York Times, Class A, (2)	112,450
11,400	News Corporation, Class A	136,344
2,700	Omnicom Group, Inc.	92,610
15,500	Scripps Networks Interactive, Class A Shares	625,270
16,100	Time Warner Cable, Class A, (2)	838,488
4,766	Time Warner Inc.	137,785
27,700	Viacom Inc., Class B, (2)	868,949
14,500	Walt Disney Company	456,750
100	Washington Post Company	41,048
Total Media		4,462,173
<b>Metals &amp; Mining 0.1%</b>		
2,400	Cliffs Natural Resources Inc.	113,184
<b>Multiline Retail 0.5%</b>		
2,200	Big Lots, Inc., (2)	70,598
1,100	Family Dollar Stores, Inc.	41,459
5,000	Kohl's Corporation, (2)	237,500
6,800	Nordstrom, Inc.	218,892
1,000	Sears Holding Corporation, (2)	64,650
4,600	Target Corporation	226,182
Total Multiline Retail		859,281

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

JCE Nuveen Core Equity Alpha Fund (continued)  
Portfolio of INVESTMENTS June 30, 2010 (Unaudited)

Shares	Description (1)	Value
	<b>Multi-Utilities 2.2%</b>	
12,700	Ameren Corporation	\$ 301,879
61,800	CenterPoint Energy, Inc.	813,288
6,200	Consolidated Edison, Inc.	267,220
1,300	Dominion Resources, Inc.	50,362
27,900	DTE Energy Company	1,272,519
14,900	Integrus Energy Group, Inc.	651,726
31,300	NiSource Inc.	453,850
1,100	PG&E Corporation	45,210
25,500	TECO Energy, Inc.	384,285
1,000	Wisconsin Energy Corporation	50,740
	Total Multi-Utilities	4,291,079
	<b>Oil, Gas &amp; Consumable Fuels 5.8%</b>	
5,200	Anadarko Petroleum Corporation	187,668
26,300	Chevron Corporation	1,784,718
4,300	ConocoPhillips	211,087
135,400	Exxon Mobil Corporation	7,727,280
4,400	Massey Energy Company	120,340
5,300	Occidental Petroleum Corporation	408,895
7,000	Pioneer Natural Resources Company	416,150
8,300	Spectra Energy Corporation	166,581
	Total Oil, Gas & Consumable Fuels	11,022,719
	<b>Paper &amp; Forest Products 0.5%</b>	
9,400	International Paper Company	212,722
31,000	MeadWestvaco Corporation	688,200
	Total Paper & Forest Products	900,922
	<b>Personal Products 0.7%</b>	
11,700	Avon Products, Inc.	310,050
18,900	Estee Lauder Companies Inc., Class A	1,053,297

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

	Total Personal Products	1,363,347
	<b>Pharmaceuticals 6.5%</b>	
26,100	Abbott Laboratories	1,220,958
1,300	Allergan, Inc.	75,738
38,100	Bristol-Myers Squibb Company	950,214
11,800	Forest Laboratories, Inc., (2)	323,674
49,800	Johnson & Johnson	2,941,188
29,500	King Pharmaceuticals Inc., (2)	223,905
106,832	Merck & Company Inc.	3,735,915
38,200	Mylan Laboratories Inc., (2)	650,928
152,490	Pfizer Inc.	2,174,507
1,900	Watson Pharmaceuticals Inc., (2)	77,083
	Total Pharmaceuticals	12,374,110
	<b>Real Estate 0.6%</b>	
13,600	Apartment Investment & Management Company, Class A	263,432
600	AvalonBay Communities, Inc.	56,022
4,800	Equity Residential	199,872
900	Health Care REIT, Inc.	37,908
3,900	ProLogis	39,507
2,920	Simon Property Group, Inc.	235,790
6,500	Ventas Inc.	305,175
700	Vornado Realty Trust	51,065
	Total Real Estate	1,188,771
	<b>Road &amp; Rail 0.6%</b>	
10,400	CSX Corporation	516,152
8,700	Norfolk Southern Corporation	461,535
2,400	Ryder System, Inc.	96,552
	Total Road & Rail	1,074,239
	<b>Semiconductors &amp; Equipment 1.9%</b>	
55,700	Advanced Micro Devices, Inc., (2)	407,724
2,700	Altera Corporation	66,987
16,300	Analog Devices, Inc.	454,118

Shares	Description (1)	Value
	<b>Semiconductors &amp; Equipment</b> (continued)	
300	Broadcom Corporation, Class A, (2)	\$ 9,891
61,900	Intel Corporation	1,203,955
2,700	KLA-Tencor Corporation	75,276
600	Linear Technology Corporation	16,686
800	Microchip Technology Incorporated	22,192
37,500	Micron Technology, Inc., (2)	318,375
1,400	NVIDIA Corporation, (2)	14,294
46,600	Texas Instruments Incorporated	1,084,848
	Total Semiconductors & Equipment	3,674,346
	<b>Software 4.0%</b>	
7,100	Adobe Systems Incorporated, (2)	187,653
12,900	Citrix Systems, (2)	544,767
187,600	Microsoft Corporation	4,316,676
56,500	Oracle Corporation	1,212,490
15,500	Red Hat, Inc., (2)	448,570
9,700	Salesforce.com, Inc., (2)	832,454
	Total Software	7,542,610
	<b>Specialty Retail 1.7%</b>	
4,500	Gap, Inc.	87,570
51,600	Limited Brands, Inc.	1,138,812
6,200	RadioShack Corporation	120,962
19,200	Tiffany & Co.	727,872
11,600	TJX Companies, Inc.	486,620
21,800	Urban Outfitters, Inc., (2)	749,702
	Total Specialty Retail	3,311,538
	<b>Textiles, Apparel &amp; Luxury Goods 0.5%</b>	
6,800	Coach, Inc.	248,540
10,400	Polo Ralph Lauren Corporation	758,784
	Total Textiles, Apparel & Luxury Goods	1,007,324
	<b>Tobacco 1.6%</b>	
12,200	Altria Group, Inc.	244,488
4,700	Lorillard Inc.	338,306
21,700	Philip Morris International	994,728
26,900	Reynolds American Inc.	1,402,028

Total Tobacco 2,979,550

**Wireless Telecommunication Services 0.0%**  
 1,000 American Tower Corporation, (2) 44,500

**Total Common Stocks (cost \$184,379,614) 184,446,559**

<b>Principal Amount (000)</b>	<b>Description (1)</b>	<b>Coupon</b>	<b>Maturity</b>	<b>Rating (3)</b>	<b>Value</b>
	<b>Short-Term Investments 5.4%</b>				
	<b>U.S. Government and Agency Obligations 2.1%</b>				
\$ 2,000	U.S. Treasury Bills, (4)	0.000%	7/29/10	AAA	\$ 1,999,782
2,000	U.S. Treasury Bills, (4)	0.000%	9/09/10	AAA	1,999,436
4,000	Total U.S. Government and Agency Obligations				3,999,218
	<b>Repurchase Agreements 3.3%</b>				
6,293	Repurchase Agreement with State Street Bank, dated 6/30/10, repurchase price \$6,292,899, collateralized by \$6,365,000 U.S. Treasury Notes, 1.000%, 4/30/12 value \$6,423,558	0.000%	7/01/10	N/A	6,292,899
<b>\$ 10,293</b>	<b>Total Short-Term Investments (cost \$10,291,853)</b>				<b>10,292,117</b>
	<b>Total Investments (cost \$194,671,467) 102.0%</b>				<b>194,738,676</b>
	<b>Other Assets Less Liabilities (2.0%)</b>				<b>(3,809,472)</b>
	<b>Net Assets 100%</b>				<b>\$ 190,929,204</b>

JCE Nuveen Core Equity Alpha Fund (continued)  
Portfolio of INVESTMENTS June 30, 2010 (Unaudited)

## Investment in Derivatives

**Call Options Written outstanding at June 30, 2010:**

<b>Number of Contracts</b>	<b>Type</b>	<b>Notional Amount (5)</b>	<b>Expiration Date</b>	<b>Strike Price</b>	<b>Value</b>
(482,957)	Custom Basket 2 NASDAQ	\$ (48,295,698)	7/08/10	\$ 103.0	\$ (145)
(449,246)	Custom Basket 4 NASDAQ	(44,924,554)	7/22/10	103.0	(41,870)
<b>(932,203)</b>	<b>Total Call Options (cost \$(1,661,116))</b>	<b>\$ (93,220,252)</b>			<b>\$ (42,015)</b>

**Futures Contracts outstanding at June 30, 2010:**

<b>Type</b>	<b>Contract Position</b>	<b>Number of Contracts</b>	<b>Contract Expiration</b>	<b>Value at June 30, 2010</b>	<b>Unrealized Appreciation (Depreciation)</b>
S&P 500 Index	Long	125	9/10	6,416,250	\$ (177,250)

For Fund portfolio compliance purposes, the Fund's industry classifications refer to any one or more of the industry sub-classifications used by one or more widely recognized market indexes or ratings group indexes, as/or as defined by Fund management. This definition may not apply for purposes of this report, which may combine industry sub-classifications into sectors for reporting ease.

- (1) All percentages shown in the Portfolio of Investments are based on net assets.
  - (2) Non-income producing; issuer has not declared a dividend within the past twelve months.
  - (3) Ratings: Using the higher of Standard & Poor's Group (Standard & Poor's), Moody's Investor Service, Inc. (Moody's) or Fitch, Inc. (Fitch) rating. Rating below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to below investment grade.
  - (4) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in derivatives.
  - (5) For disclosure purposes, Notional Amount is calculated by multiplying the Number of Contracts by \$100.
- N/A Not applicable.

*See accompanying notes to financial statements.*



18 Nuveen Investments

---

Statement of  
ASSETS & LIABILITIES

June 30, 2010 (Unaudited)

**Assets**

Investments, at value (cost \$194,671,467)	\$ 194,738,676
Dividends receivable	264,316
Other assets	13,414
<b>Total assets</b>	<b>195,016,406</b>

**Liabilities**

Call options written, at value (premiums received \$1,661,116)	42,015
Payables:	
Dividends	3,678,421
Variation margin on futures contracts	54,375
Accrued expenses:	
Management fees	155,889
Other	156,502
<b>Total liabilities</b>	<b>4,087,202</b>
<b>Net assets</b>	<b>\$ 190,929,204</b>
Shares outstanding	16,026,686
Net asset value per share outstanding	\$ 11.91

**Net assets consist of:**

Shares, \$.01 par value per share	\$ 160,267
Paid-in surplus	253,081,291
Undistributed (Over-distribution of) net investment income	(8,330,940)
Accumulated net realized gain (loss)	(55,490,474)
Net unrealized appreciation (depreciation)	1,509,060
<b>Net assets</b>	<b>\$ 190,929,204</b>
Authorized shares	Unlimited

*See accompanying notes to financial statements.*



Statement of  
OPERATIONSSix Months Ended June 30, 2010  
(Unaudited)**Investment Income**

Dividends	\$ 1,826,223
Interest	2,984
Total investment income	1,829,207

**Expenses**

Management fees	981,171
Shareholders' servicing agent fees and expenses	254
Custodian's fees and expenses	90,895
Trustees' fees and expenses	2,473
Professional fees	16,634
Shareholders' reports' printing and mailing expenses	42,523
Stock exchange listing fees	4,507
Investor relations expense	15,604
Other expenses	22,047
Total expenses before custodian fee credit	1,176,108
Custodian fee credit	(34)
Net expenses	1,176,074
Net investment income	653,133

**Realized and Unrealized Gain (Loss)**

Net realized gain (loss) from:	
Investments and foreign currency	10,872,603
Call options written	(492,456)
Futures contracts	(135,875)
Change in net unrealized appreciation (depreciation) of:	
Investments and foreign currency	(23,332,790)
Call options written	1,383,963
Futures contracts	(335,625)
Net realized and unrealized gain (loss)	(12,040,180)
Net increase (decrease) in net assets from operations	\$ (11,387,047)

*See accompanying notes to financial statements.*

20 Nuveen Investments

---

Statement of  
CHANGES IN NET ASSETS (Unaudited)

	<b>Six Months Ended 6/30/10</b>	<b>Year Ended 12/31/09</b>
<b>Operations</b>		
Net investment income	\$ 653,133	\$ 2,278,503
Net realized gain (loss) from:		
Investments and foreign currency	10,872,603	(30,916,731)
Call options written	(492,456)	(479,434)
Futures contracts	(135,875)	1,591,913
Change in net unrealized appreciation (depreciation) of:		
Investments and foreign currency	(23,332,790)	68,063,304
Call options written	1,383,963	24,246
Futures contracts	(335,625)	47,450
Net increase (decrease) in net assets from operations	(11,387,047)	40,609,251
<b>Distributions to Shareholders</b>		
From and in excess of net investment income	(8,976,932)	
From net investment income		(2,458,704)
Return of capital		(15,338,552)
Decrease in net assets from distributions to shareholders	(8,976,932)	(17,797,256)
<b>Capital Share Transactions</b>		
Offering costs adjustments		4,600
Cost of shares repurchased and retired	(73,692)	(2,629,545)
Net increase (decrease) in net assets from capital share transactions	(73,692)	(2,624,945)
Net increase (decrease) in net assets	(20,437,671)	20,187,050
Net assets at the beginning of period	211,366,875	191,179,825
Net assets at the end of period	\$ 190,929,204	\$ 211,366,875
Undistributed (Over-distribution of) net investment income at the end of period	\$ (8,330,940)	\$ (7,141)

*See accompanying notes to financial statements.*



Notes to  
FINANCIAL STATEMENTS (Unaudited)

**1. General Information and Significant Accounting Policies**

Nuveen Core Equity Alpha Fund (the Fund) is a closed-end management investment company registered under the Investment Company Act of 1940, as amended. The Fund's shares are listed on the New York Stock Exchange (NYSE) and trade under the ticker symbol JCE. The Fund was organized as a Massachusetts business trust on January 9, 2007.

The Fund's investment objective is to provide an attractive level of total return, primarily through long-term capital appreciation and secondarily through income and gains. The Fund will invest in a portfolio of common stocks selected from among the 500 stocks comprising the S&P 500 Index, using a proprietary mathematical process designed by the Fund's sub-adviser INTECH Investment Management LLC (INTECH) to select large cap, core equity securities and will also employ innovative risk reduction techniques. Typically, the Fund's equity portfolio will hold 250-450 stocks included in the S&P 500 Index. The Fund will also employ an option strategy that seeks to enhance the Fund's risk-adjusted performance over time through a meaningful reduction in the volatility of the Fund's returns relative to the returns of the S&P 500 Index. The Fund expects to write custom basket call options with a notional value of up to 50% of the value of its equity portfolio. Nuveen Asset Management (the Adviser), a wholly-owned subsidiary of Nuveen Investments, Inc. (Nuveen), is responsible for the Fund's option strategy.

The following is a summary of significant accounting policies followed by the Fund in the preparation of its financial statements in accordance with accounting principles generally accepted in the United States (U.S. GAAP).

*Investment Valuation*

Common stocks and other equity-type securities are valued at the last sales price on the securities exchange on which such securities are primarily traded and are generally classified as Level 1. Securities primarily traded on the NASDAQ National Market (NASDAQ) are valued, except as indicated below, at the NASDAQ Official Closing Price and are generally classified as Level 1. However, securities traded on a securities exchange or NASDAQ for which there were no transactions on a given day or securities not listed on a securities exchange or NASDAQ are valued at the mean between the quoted bid and ask prices.

The value of exchange-traded options are based on the last sale price or, in the absence of such a price, at the mean of the bid and ask prices. Futures contracts are valued using the closing settlement price or, in the absence of such a price, at the mean of the bid and ask prices. Exchange-traded options and futures contracts are generally classified as Level 1. Options traded in the over-the-counter market are valued using market implied volatilities and are generally classified as Level 2.

Temporary investments in securities that have variable rate and demand features qualifying them as short-term investments are valued at amortized cost, which approximates market value. These securities are generally classified as Level 1.

Certain securities may not be able to be priced by the pre-established pricing methods as described above. Such securities may be valued by the Fund's Board of Trustees or its designee at fair value. These securities generally include, but are not limited to, restricted securities (securities which may not be publicly sold without registration



under the Securities Act) for which a pricing service is unable to provide a market price; securities whose trading has been formally suspended; fixed-income securities that have gone into default and for which there is no current market quotation; a security whose market price is not available from a pre-established pricing source; a security with respect to which an event has occurred that is likely to materially affect the value of the security after the market has closed but before the calculation of the Fund's net asset value (as may be the case in non-U.S. markets on which the security is primarily traded) or make it difficult or impossible to obtain a reliable market quotation; and a security whose price, as provided by the pricing service, is not deemed to reflect the security's fair value. As a general principle, the fair value of an issue of securities would appear to be the amount that the owner might reasonably expect to receive for them in a current sale. A variety of factors may be considered in determining the fair value of these securities, which may include consideration of the following: yields or prices of investments of comparable quality, type of issue, coupon, maturity and rating, market quotes or indications of value from security dealers, evaluations of anticipated cash flows or collateral, general market conditions and other information and analysis, including the obligor's credit characteristics considered relevant. These securities are classified as Level 2 or as Level 3 depending on the priority of the significant inputs. Regardless of the method employed to value a particular security, all valuations are subject to review by the Fund's Board of Trustees, or its designee.

Refer to Footnote 2 – Fair Value Measurements for further details on the leveling of securities held by the Funds as of the end of the reporting period.

*Investment Transactions*

Investment transactions are recorded on a trade date basis. Realized gains and losses from investment transactions are determined on the specific identification method.

*Investment Income*

Dividend income is recorded on the ex-dividend date or, for foreign securities, when information is available. Interest income is recorded on an accrual basis.

*Income Taxes*

The Fund intends to comply with the requirements of Subchapter M of the Internal Revenue Code applicable to regulated investment companies. The Fund intends to distribute substantially all of its investment company taxable income to shareholders. In any year when the Fund realizes net capital gains, the Fund may choose to distribute all or a portion of its net capital gains to shareholders, or alternatively, to retain all or a portion of its net capital gains and pay federal corporate income taxes on such retained gains.

For all open tax years and all major taxing jurisdictions, management of the Fund has concluded that there are no significant uncertain tax positions that would require recognition in the financial statements. Open tax years are those that are open for examination by taxing authorities (i.e., generally the last four tax year ends and the interim tax period since then). Furthermore, management of the Fund is also not aware of any tax positions for which it is reasonably possible that the total amounts of unrecognized tax benefits will significantly change in the next twelve months.

*Dividends and Distributions to Shareholders*

Distributions to shareholders are recorded on the ex-dividend date. The amount and timing of distributions are determined in accordance with federal income tax regulations, which may differ from U.S. GAAP.

The Fund makes quarterly cash distributions to shareholders of a stated dollar amount per share. Subject to approval and oversight by the Fund's Board of Trustees, the Fund seeks to maintain a stable distribution level designed to deliver the long-term return potential of the Fund's investment strategy through regular quarterly distributions (a Managed Distribution Program). Total distributions during a calendar year generally will be made from the Fund's net investment income, net realized capital gains and net unrealized capital gains in the Fund's portfolio, if any. The portion of distributions paid from net unrealized gains, if any, would be distributed from the Fund's assets and would be treated by shareholders as a non-taxable distribution for tax purposes. In the event that total distributions during a calendar year exceed the Fund's total return on net asset value, the difference will be treated as a return of capital for tax purposes and will reduce net asset value per share. If the Fund's total return on net asset value exceeds total distributions during a calendar year, the excess will be reflected as an increase in net asset value per share. The final determination of the source and character of all distributions for the fiscal year are made after the end of the fiscal year and are reflected in the financial statements contained in the annual report as of December 31 each year.

The actual character of distributions made by the Fund during the fiscal year ended December 31, 2009, is reflected in the accompanying financial statements.

The distributions made by the Fund during the six months ended June 30, 2010, are provisionally classified as being From and in excess of net investment income, and those distributions will be classified as being from net investment income, net realized capital gains and/or a return of capital for tax purposes after the fiscal year end. For purposes of calculating Undistributed (Over-distribution of) net investment income as of June 30, 2010, the distribution amounts provisionally classified as From and in excess of net investment income were treated as being entirely from net investment income. Consequently, the financial statements at June 30, 2010, reflect an over-distribution of net investment income.

*Foreign Currency Transactions*

The Fund is authorized to engage in foreign currency exchange transactions, including foreign currency forward, futures, options and swap contracts. To the extent that the Fund invests in securities and/or contracts that are denominated in a currency other than U.S. dollars, the Fund will be subject to currency risk, which is the risk that an increase in the U.S. dollar relative to the foreign currency will reduce returns or portfolio value. Generally, when the U.S. dollar rises in value against a foreign currency, the Fund's investments denominated in that currency will lose value because its currency is worth fewer U.S. dollars; the opposite effect occurs if the U.S. dollar falls in relative value. Investments and other assets and liabilities denominated in foreign currencies are converted into U.S. dollars on a spot (i.e. cash) basis at the spot rate prevailing in the foreign currency exchange market at the time of valuation. Purchases and sales of investments and income denominated in foreign currencies are translated into U.S. dollars on the respective dates of such transactions.

The books and records of the Fund are maintained in U.S. dollars. Foreign currencies, investments and other assets and liabilities are translated into U.S. dollars at 4:00 p.m. Eastern time. Investments and income and expenses are translated on the respective dates of such transactions. Net realized foreign currency gains and losses resulting from changes in exchange rates include foreign currency gains and losses between trade date and settlement date of the transactions, foreign currency transactions, and the difference between the amounts of interest and dividends recorded on the books of the Fund and the amounts actually received.

Notes to  
FINANCIAL STATEMENTS (Unaudited) (continued)

The realized and unrealized gains or losses resulting from changes in foreign currency exchange rates are recognized as a component of Net realized gain (loss) from investments and foreign currency and Change in net unrealized appreciation (depreciation) of investments and foreign currency on the Statement of Operations, when applicable.

*Futures Contracts*

The Fund is subject to equity price risk in the normal course of pursuing its investment objectives and is authorized to invest in futures contracts in attempt to manage such risk. Upon entering into a futures contract, the Fund is required to deposit with the broker an amount of cash or liquid securities equal to a specified percentage of the contract amount. This is known as the initial margin. Cash held by the broker to cover initial margin requirements on open futures contracts, if any, is recognized as Deposits with brokers for open futures contracts on the Statement of Assets and Liabilities. Subsequent payments (variation margin) are made or received by a Fund each day, depending on the daily fluctuation of the value of the contract. Variation margin is recognized as a receivable or payable for Variation margin on futures contracts on the Statement of Assets and Liabilities, when applicable.

During the period the futures contract is open, changes in the value of the contract are recorded as an unrealized gain or loss by marking-to-market on a daily basis to reflect the changes in market value of the contract and is recognized as Change in net unrealized appreciation (depreciation) of futures contracts on the Statement of Operations. When the contract is closed or expired, a Fund records a realized gain or loss equal to the difference between the value of the contract on the closing date and value of the contract when originally entered into and is recognized as Net realized gain (loss) from futures contracts on the Statement of Operations.

Risks of investments in futures contracts include the possible adverse movement of the securities or indices underlying the contracts, the possibility that there may not be a liquid secondary market for the contracts and/or that a change in the value of the contract may not correlate with a change in the value of the underlying securities or indices.

The average number of futures contracts outstanding during the six months ended June 30, 2010, was 125. Refer to Footnote 3 Derivative Instruments and Hedging Activities for further details on futures contract activity.

*Options Transactions*

The Fund is subject to equity price risk in the normal course of pursuing its investment objectives and is authorized to write (sell) call options, primarily on custom baskets of securities, in an attempt to manage such risk. When the Fund writes a call option, an amount equal to the net premium received (the premium less commission) is recognized as a component of Call options written, at value on the Statement of Asset and Liabilities and is subsequently adjusted to reflect the current value of the written option until the option expires or the Fund enters into a closing purchase transaction. The changes in value of the options during the fiscal period are reflected as Change in net unrealized appreciation (depreciation) of call options written on the Statement of Operations. When a call option expires or the Fund enters into a closing purchase transaction, the difference between the net premium received and any amount paid at expiration or upon executing a closing purchase transaction, including commission, is recognized as Net realized gain (loss) from call options written on the Statements of Operations. The Fund, as writer of a call option, has no control over whether the underlying instrument may be sold (called) and as a result bears the risk of an unfavorable change in the market value of the instrument or index underlying the written option. There is the risk the Fund may not be able to enter into a closing transaction because of an illiquid market.

The average notional amount of call options written during the six months ended June 30, 2010, was \$(89,305,836). Refer to Footnote 3 Derivative Instruments and Hedging Activities for further details on call options written.

*Market and Counterparty Credit Risk*

In the normal course of business the Fund may invest in financial instruments and enter into financial transactions where risk of potential loss exists due to changes in the market (market risk) or failure of the other party to the transaction to perform (counterparty credit risk). The potential loss could exceed the value of the financial assets recorded on the financial statements. Financial assets, which potentially expose the Fund to counterparty credit risk, consist principally of cash due from counterparties on forward, option and swap transactions, when applicable. The extent of the Fund's exposure to counterparty credit risk in respect to these financial assets approximates their carrying value as recorded on the Statement of Assets and Liabilities. Futures contracts, when applicable, expose the Fund to minimal counterparty credit risk as they are exchange traded and the exchange's clearinghouse, which is counterparty to all exchange traded futures, guarantees the futures contracts against default.

The Fund helps manage counterparty credit risk by entering into agreements only with counterparties the Adviser believes have the financial resources to honor their obligations and by having the Adviser monitor the financial stability of the counterparties. Additionally, counterparties may be required to pledge collateral daily (based on the daily valuation of the financial asset) on behalf of the Fund with a value approximately equal to the amount of any unrealized gain above a pre-determined threshold. Reciprocally, when the Fund has an unrealized loss, the Fund has instructed the custodian to pledge assets of the Fund as collateral with a value approximately equal to the amount of the unrealized loss above a pre-determined threshold. Collateral pledges are monitored and subsequently adjusted if and when the valuations fluctuate, either up or down, by at least the predetermined threshold amount.

*Repurchase Agreements*

In connection with transactions in repurchase agreements, it is the Fund's policy that its custodian take possession of the underlying collateral securities, the fair value of which exceeds the principal amount of the repurchase transaction, including accrued interest, at all times. If the seller defaults, and the fair value of the collateral declines, realization of the collateral may be delayed or limited.

*Zero Coupon Securities*

The Fund is authorized to invest in zero coupon securities. A zero coupon security does not pay a regular interest coupon to its holders during the life of the security. Tax-exempt income to the holder of the security comes from accretion of the difference between the original purchase price of the security at issuance and the par value of the security at maturity and is effectively paid at maturity. The market prices of zero coupon securities generally are more volatile than the market prices of securities that pay interest periodically.

*Custodian Fee Credit*

The Fund has an arrangement with the custodian bank whereby certain custodian fees and expenses are reduced by net credits earned on the Fund's cash on deposit with the bank. Such deposit arrangements are an alternative to overnight investments. Credits for cash balances may be offset by charges for any days on which the Fund overdraws its account at the custodian bank.

*Indemnifications*

Under the Fund's organizational documents, its officers and trustees are indemnified against certain liabilities arising out of the performance of their duties to the Fund. In addition, in the normal course of business, the Fund enters into contracts that provide general indemnifications to other parties. The Fund's maximum exposure under these arrangements is unknown as this would involve future claims that may be made against the Fund that have not yet occurred. However, the Fund has not had prior claims or losses pursuant to these contracts and expects the risk of loss to be remote.

*Use of Estimates*

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of increases and decreases in net assets from operations during the reporting period. Actual results may differ from those estimates.

**2. Fair Value Measurements**

In determining the value of the Fund's investments, various inputs are used. These inputs are summarized in the three broad levels listed below:

- Level 1 Quoted prices in active markets for identical securities.
- Level 2 Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).
- Level 3 Significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risk associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of June 30, 2010:

	Level 1	Level 2	Total
--	---------	---------	-------

			<b>Level 3</b>	
Investments:				
Common Stocks	\$ 184,446,559	\$	\$	\$ 184,446,559
Short-Term Investments	10,292,117			10,292,117
Derivatives:				
Call Options Written		(42,015)		(42,015)
Futures Contracts *	(177,250)			(177,250)
Total	\$ 194,561,426	\$ (42,015)	\$	\$ 194,519,411

\* Represents net unrealized appreciation (depreciation).

### 3. Derivative Instruments and Hedging Activities

The Fund records derivative instruments at fair value, with changes in fair value recognized on the Statement of Operations, when applicable. Even though the Fund's investments in derivatives may represent economic hedges, they are not considered to be hedge transactions for financial reporting purposes. For additional information on the derivative instruments in which the Fund was invested during and at the end of the reporting period, refer to the Portfolio of Investments, Financial Statements and Footnote 1 General Information and Significant Accounting Policies.

Nuveen Investments 25

---

Notes to  
FINANCIAL STATEMENTS (Unaudited) (continued)

The following table presents the fair value of all derivative instruments held by the Fund as of June 30, 2010, the location of these instruments on the Statement of Assets and Liabilities, and the primary underlying risk exposure.

Underlying Risk Exposure	Derivative Instrument	Location on the Statement of Assets and Liabilities			
		Asset Derivatives		Liability Derivatives	
		Location	Value	Location	Value
Equity Price	Futures Contracts	Receivable for variation margin on futures contracts*	\$	Payable for variation margin on futures contracts*	\$ 177,250
Equity Price	Options			Call options written, at value	42,015
Total			\$		219,265

\* Value represents cumulative unrealized appreciation (depreciation) of futures contracts as reported in the Portfolio of Investments and not the deposits with brokers, if any, or the receivable or payable for variation margin presented on the Statement of Assets and Liabilities.

The following tables present the amount of net realized gain (loss) and change in net unrealized appreciation (depreciation) recognized for the six months ended June 30, 2010, on derivative instruments, as well as the primary risk exposure associated with each.

**Net Realized Gain (Loss) from Call Options Written**

**Risk Exposure**

Equity Price \$ (492,456)

**Net Realized Gain (Loss) from Futures Contracts**

**Risk Exposure**

Equity Price \$ (135,875)

**Change in Net Unrealized Appreciation (Depreciation) of Call Options Written**

**Risk Exposure**

Equity Price \$ 1,383,963



**Change in Net Unrealized Appreciation (Depreciation) of Futures Contracts****Risk Exposure**

Equity Price		\$ (335,625)
--------------	--	--------------

**4. Fund Shares**

Transactions in shares were as follows:

	<b>Six Months Ended 6/30/10</b>	<b>Year Ended 12/31/09</b>
Shares repurchased and retired	(7,100)	(255,100)
Weighted average:		
Price per share repurchased and retired	\$ 10.36	\$ 10.29
Discount per share repurchased and retired	23.38%	15.00%

**5. Investment Transactions**

Purchases and sales (excluding short-term investments and derivative transactions) during the six months ended June 30, 2010, aggregated \$125,242,626 and \$130,587,569, respectively.

Transactions in call options written during the six months ended June 30, 2010, were as follows:

	<b>Number of Contracts</b>	<b>Premiums Received</b>
Outstanding, beginning of period	899,509	\$ 998,023
Call options written	4,242,097	4,665,780
Call options terminated in closing purchase transactions	(1,778,992)	(1,745,017)
Call options expired	(2,430,411)	(2,257,670)
Outstanding, end of period	932,203	\$ 1,661,116

**6. Income Tax Information**

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to timing differences in recognizing certain gains and losses on investment transactions and the recognition of unrealized gain or loss

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

for tax (mark-to-market) on futures contracts. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

At June 30, 2010, the cost and unrealized appreciation (depreciation) of investments (excluding investments in derivatives), as determined on a federal income tax basis, were as follows:

Cost of investments	\$ 196,236,577
Gross unrealized:	
Appreciation	\$ 13,393,278
Depreciation	(14,891,179)
Net unrealized appreciation (depreciation) of investments	\$ (1,497,901)

The tax components of undistributed net ordinary income and net long-term capital gains at December 31, 2009, the Fund's last tax year end, were as follows:

Undistributed net ordinary income *	\$
Undistributed net long-term capital gains	

\* Net ordinary income consists of net taxable income derived from dividends, interest, and net short-term capital gains, if any.

The tax character of distributions paid during the Fund's last tax year ended December 31, 2009, was designated for purposes of the dividends paid deduction as follows:

Distributions from net ordinary income *	\$ 2,458,704
Return of capital	15,338,552

\* Net ordinary income consists of net taxable income derived from dividends, interest, and net short-term capital gains, if any.

At December 31, 2009, the Fund's last tax year end, the Fund had unused capital loss carryforwards available for federal income tax purposes to be applied against future capital gains, if any. If not applied, the carryforwards will expire as follows:

Expiration:	
December 31, 2016	\$ 13,413,513
December 31, 2017	50,597,748
Total	\$ 64,011,261

**7. Management Fees and Other Transactions with Affiliates**

The Fund's management fee is separated into two components – a fund-level fee, based only on the amount of assets within the Fund, and a complex-level fee, based on the aggregate amount of all fund assets managed by the Adviser. This pricing structure enables Fund shareholders to benefit from growth in the assets within the Fund as well as from growth in the amount of complex-wide assets managed by the Adviser.

The annual fund-level fee, payable monthly, is calculated according to the following schedule:

<b>Average Daily Managed Assets*</b>	<b>Fund-Level Fee Rate</b>
For the first \$500 million	.7500%
For the next \$500 million	.7250
For the next \$500 million	.7000
For the next \$500 million	.6750
For Managed Assets over \$2 billion	.6500

Nuveen Investments 27

---

Notes to  
FINANCIAL STATEMENTS (Unaudited) (continued)

The annual complex-level fee, payable monthly, is calculated according to the following schedule:

<b>Complex-Level Managed Asset Breakpoint Level*</b>	<b>Effective Rate at Breakpoint Level</b>
\$55 billion	.2000%
\$56 billion	.1996
\$57 billion	.1989
\$60 billion	.1961
\$63 billion	.1931
\$66 billion	.1900
\$71 billion	.1851
\$76 billion	.1806
\$80 billion	.1773
\$91 billion	.1691
\$125 billion	.1599
\$200 billion	.1505
\$250 billion	.1469
\$300 billion	.1445

\* The complex-level fee is calculated based upon the aggregate daily managed assets of all Nuveen funds, with such daily managed assets defined separately for each fund in its management agreement, but excluding assets attributable to investments in other Nuveen funds. For the complex-level and fund-level fees, daily managed assets include closed-end fund assets managed by the Adviser that are attributable to financial leverage. For these purposes, financial leverage includes the funds' use of preferred stock and borrowings and certain investments in the residual interest certificates (also called inverse floating rate securities) in tender option bond (TOB) trusts, including the portion of assets held by a TOB trust that has been effectively financed by the trust's issuance of floating rate securities, subject to an agreement by the Adviser to limit the amount of such assets for determining managed assets in certain circumstances. As of June 30, 2010, the complex-level fee rate was .1857%.

The management fee compensates the Adviser for overall investment advisory and administrative services and general office facilities. The Adviser is responsible for the overall investment strategy and asset allocation decisions. The Adviser has entered into a Sub-Advisory Agreement with INTECH. INTECH is compensated for its services to the Fund from the management fee paid to the Adviser.

The Fund pays no compensation directly to those of its trustees who are affiliated with the Adviser or to its officers, all of whom receive remuneration for their services to the Fund from the Adviser or its affiliates. The Board of Trustees has adopted a deferred compensation plan for independent trustees that enables trustees to elect to defer receipt of all or a portion of the annual compensation they are entitled to receive from certain Nuveen advised funds. Under the plan, deferred amounts are treated as though equal dollar amounts had been invested in shares of select Nuveen advised funds.

## 8. New Accounting Standards

On January 21, 2010, Financial Accounting Standards Board issued changes to the authoritative guidance under U.S. GAAP for fair value measurements. The objective of which is to provide guidance on how investment assets and liabilities are to be valued and disclosed. Specifically, the amendment requires reporting entities disclose Level 3 activity for purchases, sales, issuances and settlements in the Level 3 roll-forward on a gross basis rather than as one net number. The effective date of the amendment is for interim and annual periods beginning after December 15, 2010. At this time, management is evaluating the implications of this guidance and the impact it will have to the financial statement amounts and footnote disclosures, if any.

## **9. Subsequent Events**

### *Investment Policy Changes*

Subsequent to the reporting period, the Fund's Board of Trustees approved minor changes to the investment policies of the Equity Portfolio Strategy of the Fund. Specifically, the Board of Trustees approved a change to the Fund's non-fundamental investment policy to provide that, under normal market circumstances, the Equity Portfolio will consist of a diversified portfolio of 150 to 450 common stocks included in the Index. The changes are a result of INTECH's enhancements to the engineering parameters of the mathematical portfolio construction process. The turnover in the portfolio (measured in terms of total dollar volume of stock trading) is estimated to range between 70% and 100% (versus the previous 80% and 120%) per year. The expected investment outcomes including excess return and tracking error targets have not changed as a result of this portfolio engineering enhancement but the portfolio is expected to have a lower weighted average market capitalization.

Financial  
HIGHLIGHTS (Unaudited)

Nuveen Investments 29

---

Financial

HIGHLIGHTS (Unaudited)

Selected data for a share outstanding throughout each period:

	Investment Operations				Less Distributions			Discount from Shares		Ending Net Asset Value	Ending Market Value	
	Beginning Net Asset Value	Net Investment Income(a)	Realized/Unrealized Gain (Loss)	Net Investment Total Income	Capital Gains	Return of Capital	Repurchased and Retired	Offering Costs				
Year ended 12/31:												
2010(e)	\$ 13.18	\$ .04	\$ (.75)	\$ (0.71)	\$ (.56)***	\$	\$ (.56)	\$ *	\$	\$ 11.91	\$ 11.52	
2009	11.74	.14	2.38	2.52	(.15)		(.95)	(1.10)	.02	*	13.18	12.21
2008	18.72	.16	(5.65)	(5.49)	(.16)		(1.34)	(1.50)	.01	*	11.74	9.61
2007(d)	19.10	.15	.81	0.96	(.14)		(1.16)	(1.30)	*	(0.04)	18.72	16.35

Total Returns			Ratios/Supplemental Data Ratios to Average Net Assets(c)		
Based on Market Value(b)	Based on Net Asset Value(b)	Ending Net Assets (000)	Expenses	Net Investment Income	Portfolio Turnover Rate
(1.18)%	(5.61)%	\$ 190,929	1.12%**	.62%**	60%
41.27	23.16	211,367	1.15	1.20	112
(34.06)	(30.84)	191,180	1.11	1.04	51
(12.08)	4.84	307,877	1.07**	1.03**	73

- (a) Per share Net Investment Income is calculated using the average daily shares method.
- (b) Total Return Based on Market Value is the combination of changes in the market price per share and the effect of reinvested dividend income and reinvested capital gains distributions, if any, at the average price paid per share at the time of reinvestment. The last dividend declared in the period, which is typically paid on the first business day of the following month, is assumed to be reinvested at the ending market price. The actual reinvestment for the last dividend declared in the period may take place over several days, and in some instances may not be based on the market price, so the actual reinvestment price may be different from the price used in the calculation. Total returns are not annualized.

Total Return Based on Net Asset Value is the combination of changes in net asset value, reinvested dividend income at net asset value and reinvested capital gains distributions at net asset value, if any. The last dividend declared in the period, which is typically paid on the first business day of the following month, is assumed to be reinvested at the ending net asset value. The actual reinvest price for the last dividend declared in the period may often be based on the Fund's market price (and not its net asset value), and therefore may be different from the price used in the calculation. Total returns are not annualized.

- (c) Ratios do not reflect the effect of custodian fee credits earned on the Fund's net cash on deposit with the custodian bank, where applicable.
- (d) For the period March 27, 2007 (commencement of operations) through December 31, 2007.
- (e) For the six months ended June 30, 2010.
- \* Rounds to less than \$.01 per share.
- \*\* Annualized.
- \*\*\* Represents distributions paid From and in excess of net investment income for the six months ended June 30, 2010.

*See accompanying notes to financial statements.*



Annual Investment Management  
Agreement Approval Process

The Investment Company Act of 1940, as amended (the *1940 Act*), provides, in substance, that each investment advisory agreement between a fund and its investment adviser (including sub-advisers) will continue in effect from year to year only if its continuance is approved at least annually by the fund's board members, including by a vote of a majority of the board members who are not parties to the advisory agreement or interested persons of any parties (the *Independent Board Members*), cast in person at a meeting called for the purpose of considering such approval. In connection with such approvals, the fund's board members must request and evaluate, and the investment adviser is required to furnish, such information as may be reasonably necessary to evaluate the terms of the advisory agreement. Accordingly, at a meeting held on May 25-26, 2010 (the *May Meeting*), the Board of Trustees (the *Board*, and each Trustee, a *Board Member*) of the Fund, including a majority of the Independent Board Members, considered and approved the continuation of the advisory and sub-advisory agreements for the Fund for an additional one-year period. These agreements include the investment advisory agreement between Nuveen Asset Management (*NAM*) and the Fund and the sub-advisory agreement between NAM and INTECH Investment Management LLC (the *Sub-Adviser*). In preparation for their considerations at the May Meeting, the Board also held a separate meeting on April 21-22, 2010 (the *April Meeting*). Accordingly, the factors considered and determinations made regarding the renewals by the Independent Board Members include those made at the April Meeting.

In addition, in evaluating the advisory agreement (the *Investment Management Agreement*) and the sub-advisory agreement (the *Sub-advisory Agreement*, and the Investment Management Agreement and Sub-advisory Agreement are each an *Advisory Agreement*), the Independent Board Members reviewed a broad range of information relating to the Fund, NAM and the Sub-Adviser (NAM and the Sub-Adviser are each a *Fund Adviser*), including absolute and comparative performance, fee and expense information for the Fund (as described in more detail below), the profitability of Nuveen for its advisory activities (which includes its wholly owned subsidiaries), and other information regarding the organization, personnel, and services provided by the respective Fund Adviser. The Independent Board Members also met quarterly as well as at other times as the need arose during the year and took into account the information provided at such meetings and the knowledge gained therefrom. Prior to approving the renewal of the Advisory Agreements, the Independent Board Members reviewed the foregoing information with their independent legal counsel and with management, reviewed materials from independent legal counsel describing applicable law and their duties in reviewing advisory contracts, and met with independent legal counsel in private sessions without management present. The Independent Board Members considered the legal advice provided by independent legal counsel and relied upon their knowledge of the Fund Adviser, its services and the Fund resulting from their meetings and other interactions throughout the year and their own business judgment in determining the factors to be considered in evaluating the Advisory Agreements. Each Board Member may have accorded different weight to the various factors in reaching his or her conclusions with respect to the Fund's Advisory Agreements. The Independent Board Members did not identify any single factor as all-important or controlling. The Independent Board Members' considerations were instead based on a comprehensive consideration of all the information presented. The principal factors considered by the Board and its conclusions are described below.

**A. Nature, Extent and Quality of Services**

In considering renewal of the Advisory Agreements, the Independent Board Members considered the nature, extent and quality of the Fund Adviser's services, including advisory services and administrative services. The Independent Board Members reviewed materials outlining, among other things, the Fund Adviser's organization and business; the types of services that the Fund Adviser or its affiliates provide and are expected to provide to the Fund; the

performance record of the Fund (as described in further detail below); and any initiatives Nuveen had taken for the applicable fund product line, including continued activities to refinance auction rate preferred

32 Nuveen Investments

---

securities, manage leverage during periods of market turbulence and implement an enhanced leverage management process, modify investment mandates in light of market conditions and seek shareholder approval as necessary, maintain the fund share repurchase program and maintain shareholder communications to keep shareholders apprised of Nuveen's efforts in refinancing preferred shares. In addition to the foregoing, the Independent Board Members also noted the additional services that NAM or its affiliates provide to closed-end funds, including, in particular, Nuveen's continued commitment to supporting the secondary market for the common shares of its closed-end funds through a variety of programs designed to raise investor and analyst awareness and understanding of closed-end funds. These efforts include maintaining an investor relations program to provide timely information and education to financial advisers and investors; providing marketing for the closed-end funds; maintaining and enhancing a closed-end fund website; participating in conferences and having direct communications with analysts and financial advisors.

As part of their review, the Independent Board Members also evaluated the background, experience and track record of the Fund Adviser's investment personnel. In this regard, the Independent Board Members considered any changes in the personnel, and the impact on the level of services provided to the Fund, if any. The Independent Board Members also reviewed information regarding portfolio manager compensation arrangements to evaluate the Fund Adviser's ability to attract and retain high quality investment personnel, preserve stability, and reward performance but not provide an incentive for taking undue risks.

In addition to advisory services, the Independent Board Members considered the quality of administrative services provided by NAM and its affiliates including product management, fund administration, oversight of service providers, shareholder services, administration of Board relations, regulatory and portfolio compliance and legal support. Given the importance of compliance, the Independent Board Members also considered NAM's compliance program, including the report of the chief compliance officer regarding the Fund's compliance policies and procedures.

The Independent Board Members also considered NAM's oversight of the performance, business activities and compliance of the Sub-Adviser. In that regard, the Independent Board Members reviewed an evaluation of the Sub-Adviser from NAM. The evaluation also included information relating to the Sub-Adviser's organization, operations, personnel, assets under management, investment philosophy, strategies and techniques in managing the Fund, developments affecting the Sub-Adviser, and an analysis of the Sub-Adviser. As described in further detail below, the Board also considered the performance of the Fund. In addition, the Board recognized that the Sub-advisory Agreement was essentially an agreement for portfolio management services only and the Sub-Adviser was not expected to supply other significant administrative services to the Fund. As part of their oversight, the Independent Board Members also continued their program of seeking to visit each sub-adviser to the Nuveen funds at least once over a multiple year rotation, meeting with key investment and business personnel. The Independent Board Members noted that NAM recommended the renewal of the Sub-advisory Agreement and considered the basis for such recommendations.

Based on their review, the Independent Board Members found that, overall, the nature, extent and quality of services provided (and expected to be provided) to the Fund under the Investment Management Agreement or Sub-advisory Agreement, as applicable, were satisfactory.

## **B. The Investment Performance of the Fund and Fund Advisers**

The Board considered the performance results of the Fund over various time periods. The Board reviewed, among other things, the Fund's historic investment performance as well as information comparing the Fund's performance information with that of other funds (the *Performance Peer Group*) based on data provided by an independent provider of mutual fund data and with recognized and/or customized benchmarks. In this regard, the performance information the Board reviewed included the Fund's total return information compared to the returns of its Performance Peer Group and recognized and/or customized benchmarks for the quarter and one-year periods ending December 31, 2009 and for the quarter, one-year and three-year periods ending March 31, 2010. The Independent

Edgar Filing: Nuveen Core Equity Alpha Fund - Form N-CSRS

Board Members also reviewed historic premium and discount levels, including a summary of actions taken to date for the Fund. This information supplemented the Fund performance information provided to the Board at each of its quarterly meetings.

In reviewing peer comparison information, the Independent Board Members recognized that the Performance Peer Group of certain funds may not adequately represent the objectives and strategies of the funds, thereby

Nuveen Investments 33

---

Annual Investment Management  
Agreement Approval Process (continued)

limiting the usefulness of comparing a fund's performance with that of its Performance Peer Group. Based on their review, the Independent Board Members determined that the Fund's investment performance over time had been satisfactory. More specifically, the Board noted that the performance of the Fund over time was satisfactory compared to peers, falling within the second or third quartile over various periods.

**C. Fees, Expenses and Profitability**

**1. Fees and Expenses**

The Board evaluated the management fees and expenses of the Fund reviewing, among other things, the Fund's gross management fees, net management fees and net expense ratios in absolute terms as well as compared to the fee and expenses of a comparable universe of funds based on data provided by an independent fund data provider (the *Peer Universe*) and in certain cases, to a more focused subset of funds in the Peer Universe (the *Peer Group*) and any expense limitations.

The Independent Board Members further reviewed the methodology regarding the construction of the applicable Peer Universe and/or Peer Group. In reviewing the comparisons of fee and expense information, the Independent Board Members took into account that in certain instances various factors such as: the asset level of a fund relative to peers; the limited size and particular composition of the Peer Universe or Peer Group; the investment objectives of the peers; expense anomalies; changes in the funds comprising the Peer Universe or Peer Group from year to year; levels of reimbursement; the timing of information used; and the differences in the type and use of leverage may impact the comparative data, thereby limiting the ability to make a meaningful comparison with peers.

In reviewing the fee schedule for the Fund, the Independent Board Members also considered the fund-level and complex-wide breakpoint schedules (described in further detail below) and any fee waivers and reimbursements provided by Nuveen (applicable, in particular, for certain closed-end funds launched since 1999). The Independent Board Members noted that the Fund had net management fees and/or a net expense ratio below the peer average of its Peer Group or Peer Universe.

Based on their review of the fee and expense information provided, the Independent Board Members determined that the Fund's management fees were reasonable in light of the nature, extent and quality of services provided to the Fund.

**2. Comparisons with the Fees of Other Clients**

The Independent Board Members further reviewed information regarding the nature of services and fee rates offered by NAM to other clients. Such clients include separately managed accounts (both retail and institutional accounts), foreign investment funds offered by Nuveen and funds that are not offered by Nuveen but are sub-advised by one of Nuveen's investment management teams. In evaluating the comparisons of fees, the Independent Board Members noted that the fee rates charged to the Fund and other clients vary, among other things, because of the different services involved and the additional regulatory and compliance requirements associated with registered investment companies, such as the Fund. Accordingly, the Independent Board Members considered the differences in the product types, including, but not limited to, the services provided, the structure and operations, product distribution and costs thereof, portfolio investment policies, investor profiles, account sizes and regulatory requirements. The Independent Board Members noted, in particular, that the range of services provided to the Fund (as discussed above) is much more extensive than that provided to separately managed accounts. Given the inherent differences in the products, particularly the extensive services provided to the Fund, the Independent Board Members believe such facts justify the different levels of fees.

In considering the fees of the Sub-Adviser, the Independent Board Members also considered the pricing schedule or fees that the Sub-Adviser charges for similar investment management services for other fund sponsors or clients (such as retail and/or institutional managed accounts) as applicable. The Independent Board Members noted that such fees were the result of arm's-length negotiations.

### **3. Profitability of Fund Advisers**

In conjunction with its review of fees, the Independent Board Members also considered the profitability of Nuveen for its advisory activities (which incorporated Nuveen's wholly-owned affiliated sub-advisers) and its financial condition. The Independent Board Members reviewed the revenues and expenses of Nuveen's

34 Nuveen Investments

---

advisory activities for the last two years, the allocation methodology used in preparing the profitability data and an analysis of the key drivers behind the changes in revenues and expenses that impacted profitability in 2009. The Independent Board Members noted this information supplemented the profitability information requested and received during the year to help keep them apprised of developments affecting profitability (such as changes in fee waivers and expense reimbursement commitments). In this regard, the Independent Board Members noted that they had also appointed an Independent Board Member as a point person to review and keep them apprised of changes to the profitability analysis and/or methodologies during the year. The Independent Board Members also considered Nuveen's revenues for advisory activities, expenses, and profit margin compared to that of various unaffiliated management firms with similar amounts of assets under management and relatively comparable asset composition prepared by Nuveen.

In reviewing profitability, the Independent Board Members recognized the subjective nature of determining profitability which may be affected by numerous factors including the allocation of expenses. Further, the Independent Board Members recognized the difficulties in making comparisons as the profitability of other advisers generally is not publicly available and the profitability information that is available for certain advisers or management firms may not be representative of the industry and may be affected by, among other things, the adviser's particular business mix, capital costs, types of funds managed and expense allocations. Notwithstanding the foregoing, the Independent Board Members reviewed Nuveen's methodology and assumptions for allocating expenses across product lines to determine profitability. In reviewing profitability, the Independent Board Members recognized Nuveen's investment in its fund business.

Based on their review, the Independent Board Members concluded that Nuveen's level of profitability for its advisory activities was reasonable in light of the services provided. The Independent Board Members also considered the Sub-Adviser's revenues, expenses and profitability margins (pre- and post-tax). Based on their review, the Independent Board Members were satisfied that the Sub-Adviser's level of profitability was reasonable in light of the services provided.

In evaluating the reasonableness of the compensation, the Independent Board Members also considered other amounts paid to a Fund Adviser by the Fund as well as any indirect benefits (such as soft dollar arrangements, if any) the Fund Adviser and its affiliates receive, or are expected to receive, that are directly attributable to the management of the Fund, if any. See Section E below for additional information on indirect benefits a Fund Adviser may receive as a result of its relationship with the Fund. Based on their review of the overall fee arrangements of the Fund, the Independent Board Members determined that the advisory fees and expenses of the Fund were reasonable.

#### **D. Economies of Scale and Whether Fee Levels Reflect These Economies of Scale**

With respect to economies of scale, the Independent Board Members have recognized the potential benefits resulting from the costs of a fund being spread over a larger asset base, although economies of scale are difficult to measure and predict with precision, particularly on a fund-by-fund basis. One method to help ensure the shareholders share in these benefits is to include breakpoints in the advisory fee schedule. Generally, management fees for funds in the Nuveen complex are comprised of a fund-level component and a complex-level component, subject to certain exceptions. Accordingly, the Independent Board Members reviewed and considered the applicable fund-level breakpoints in the advisory fee schedules that reduce advisory fees as asset levels increase. Further, the Independent Board Members noted that although closed-end funds may from time to time make additional share offerings, the growth of their assets will occur primarily through the appreciation of such funds' investment portfolio.

In addition to fund-level advisory fee breakpoints, the Board also considered the Fund's complex-wide fee arrangement. Pursuant to the complex-wide fee arrangement, the fees of the funds in the Nuveen complex are generally reduced as the assets in the fund complex reach certain levels. The complex-wide fee arrangement seeks to provide the benefits of economies of scale to fund shareholders when total fund complex assets increase, even if assets

of a particular fund are unchanged or have decreased. The approach reflects the notion that some of Nuveen's costs are attributable to services provided to all its funds in the complex and therefore all funds benefit if these costs are spread over a larger asset base.



Annual Investment Management  
Agreement Approval Process (continued)

Based on their review, the Independent Board Members concluded that the breakpoint schedules and complex-wide fee arrangement were acceptable and reflect economies of scale to be shared with shareholders when assets under management increase.

**E. Indirect Benefits**

In evaluating fees, the Independent Board Members received and considered information regarding potential fall out or ancillary benefits the respective Fund Adviser or its affiliates may receive as a result of its relationship with the Fund. In this regard, the Independent Board Members considered any revenues received by affiliates of NAM for serving as agent at Nuveen's trading desk and as co-manager in initial public offerings of new closed-end funds.

In addition to the above, the Independent Board Members considered whether each Fund Adviser received any benefits from soft dollar arrangements whereby a portion of the commissions paid by the Fund for brokerage may be used to acquire research that may be useful to the Fund Adviser in managing the assets of the Fund and other clients. With respect to NAM, the Independent Board Members noted that NAM does not currently have any soft dollar arrangements; however, to the extent certain bona fide agency transactions that occur on markets that traditionally trade on a principal basis and riskless principal transactions are considered as generating commissions, NAM intends to comply with the applicable safe harbor provisions. With respect to the Sub-Adviser, the Independent Board Members considered that the Sub-Adviser does not participate in soft dollar arrangements. It may, however, pay higher commissions for execution services as permitted under applicable law.

Based on their review, the Independent Board Members concluded that any indirect benefits received by a Fund Adviser as a result of its relationship with the Fund were reasonable and within acceptable parameters.

**F. Other Considerations**

The Independent Board Members did not identify any single factor discussed previously as all-important or controlling. The Board Members, including the Independent Board Members, unanimously concluded that the terms of the Investment Management Agreement and Sub-advisory Agreement are fair and reasonable, that the respective Fund Adviser's fees are reasonable in light of the services provided to the Fund and that the Investment Management Agreement and the Sub-advisory Agreement be renewed.

Reinvest Automatically  
Easily and Conveniently

**Nuveen makes reinvesting easy. A phone call is all it takes to set up your reinvestment account.**

#### **Nuveen Closed-End Funds Automatic Reinvestment Plan**

Your Nuveen Closed-End Fund allows you to conveniently reinvest distributions in additional Fund shares.

By choosing to reinvest, you will be able to invest money regularly and automatically, and watch your investment grow through the power of compounding. Just like distributions in cash, there may be times when income or capital gains taxes may be payable on distributions that are reinvested.

It is important to note that an automatic reinvestment plan does not ensure a profit, nor does it protect you against loss in a declining market.

#### **Easy and convenient**

To make recordkeeping easy and convenient, each quarter you will receive a statement showing your total distributions, the date of investment, the shares acquired and the price per share, and the total number of shares you own.

#### **How shares are purchased**

The shares you acquire by reinvesting will either be purchased on the open market or newly issued by the Fund. If the shares are trading at or above net asset value at the time of valuation, the Fund will issue new shares at the greater of the net asset value or 95% of the then-current market price. If the shares are trading at less than net asset value, shares for your account will be purchased on the open market. If the Plan Agent begins purchasing Fund shares on the open market while shares are trading below net asset value, but the Fund's shares subsequently trade at or above their net asset value before the Plan Agent is able to complete its purchases, the Plan Agent may cease open-market purchases and may invest the uninvested portion of the distribution in newly-issued Fund shares at a price equal to the greater of the shares' net asset value or 95% of the shares' market value on the last business day immediately prior to the purchase date. Distributions received to purchase shares in the open market will normally be invested shortly after the distribution payment date. No interest will be paid on distributions awaiting reinvestment. Because the market price of the shares may increase before purchases are completed, the average purchase price per share may exceed the market price at the time of valuation, resulting in the acquisition of fewer shares than if the distribution had been paid in shares issued by the Fund. A pro rata portion of any applicable brokerage commissions on open market purchases will be paid by Plan participants. These commissions usually will be lower than those charged on individual transactions.

**Flexible**

You may change your distribution option or withdraw from the Plan at any time, should your needs or situation change.

You can reinvest whether your shares are registered in your name, or in the name of a brokerage firm, bank, or other nominee. Ask your financial advisor if his or her firm will participate on your behalf. Participants whose shares are registered in the name of one firm may not be able to transfer the shares to another firm and continue to participate in the Plan.

The Fund reserves the right to amend or terminate the Plan at any time. Although the Fund reserves the right to amend the Plan to include a service charge payable by the participants, there is no direct service charge to participants in the Plan at this time.

**Call today to start reinvesting distributions**

For more information on the Nuveen Automatic Reinvestment Plan or to enroll in or withdraw from the Plan, speak with your financial advisor or call us at (800) 257-8787.

Glossary of Terms  
Used in this Report

- n **Average Annual Total Return:** This is a commonly used method to express an investment's performance over a particular, usually multi-year time period. It expresses the return that would have been necessary each year to equal the investment's actual cumulative performance (including change in NAV or market price and reinvested dividends and capital gains distributions, if any) over the time period being considered.
- n **Current Distribution Rate:** Market yield is based on the Fund's current annualized quarterly distribution divided by the Fund's current market price. The Fund's quarterly distributions to its shareholders may be comprised of ordinary income, net realized capital gains and, if at the end of the calendar year the Fund's cumulative net ordinary income and net realized gains are less than the amount of the Fund's distributions, a tax return of capital.
- n **Net Asset Value (NAV):** A Fund's NAV per share is calculated by subtracting the liabilities of the Fund from its total assets and then dividing the remainder by the number of shares outstanding. Fund NAVs are calculated at the end of each business day.

Notes

40 Nuveen Investments

---

Notes

Nuveen Investments 41

---

Notes

42 Nuveen Investments

---

Other Useful Information

**Board of Trustees**

John P. Amboian  
Robert P. Bremner  
Jack B. Evans  
William C. Hunter  
David J. Kundert  
William J. Schneider  
Judith M. Stockdale  
Carole E. Stone  
Terence J. Toth

**Fund Manager**

Nuveen Asset Management  
333 West Wacker Drive  
Chicago, IL 60606

**Custodian**

State Street Bank & Trust Company  
Boston, MA

**Transfer Agent and  
Shareholder Services**

State Street Bank & Trust Company  
Nuveen Funds  
P.O. Box 43071  
Providence, RI 02940-3071  
(800) 257-8787

**Legal Counsel**

Chapman and Cutler LLP  
Chicago, IL

**Independent Registered  
Public Accounting Firm**

PricewaterhouseCoopers LLP  
Chicago, IL

**Quarterly Portfolio of Investments and Proxy Voting Information**

You may obtain (i) the Fund's quarterly portfolio of investments, (ii) information regarding how the Fund voted proxies relating to portfolio securities held during the most recent twelve-month period ended June 30, and (iii) a description of the policies and procedures that the Fund used to determine how to vote proxies relating to portfolio securities without charge, upon request, by calling Nuveen Investments toll-free at (800) 257-8787 or on Nuveen's



website at [www.nuveen.com](http://www.nuveen.com).

You may also obtain this and other Fund information directly from the Securities and Exchange Commission ( SEC ). The SEC may charge a copying fee for this information. Visit the SEC on-line at <http://www.sec.gov> or in person at the SEC's Public Reference Room in Washington, D.C. Call the SEC at (202) 942-8090 for room hours and operation. You may also request Fund information by sending an e-mail request to [publicinfo@sec.gov](mailto:publicinfo@sec.gov) or by writing to the SEC's Public Reference Section at 100 F Street NE, Washington, D.C. 20549.

### **CEO Certification Disclosure**

The Fund's Chief Executive Officer has submitted to the New York Stock Exchange ( NYSE ) the annual CEO certification as required by Section 303A.12(a) of the NYSE Listed Company Manual.

The Fund has filed with the SEC the certification of its Chief Executive Officer and Chief Financial Officer required by Section 302 of the Sarbanes-Oxley Act.

### **Common Share Information**

The Fund intends to repurchase shares of its own common stock in the future at such times and in such amounts as is deemed advisable. During the period covered by this report, the Fund repurchased shares of its common stock as shown in the accompanying table.

<b>Common Shares Repurchased</b>
7,100

Any future repurchases will be reported to shareholders in the next annual or semi-annual report.

Nuveen Investments:  
Serving Investors for Generations

Since 1898, financial advisors and their clients have relied on Nuveen Investments to provide dependable investment solutions through continued adherence to proven, longterm investing principles. Today, we offer a range of high quality equity and fixed-income solutions designed to be integral components of a well-diversified core portfolio.

**Focused on meeting investor needs.**

Nuveen Investments is a global investment management firm that seeks to help secure the long-term goals of institutions and high net worth investors as well as the consultants and financial advisors who serve them. We market our growing range of specialized investment solutions under the high-quality brands of HydePark, NWQ, Nuveen, Santa Barbara, Symphony, Tradewinds and Winslow Capital. In total, Nuveen Investments managed approximately \$150 billion of assets on June 30, 2010.

**Find out how we can help you.**

To learn more about the products and services of Nuveen Investments may be able to help you meet your financial goals, talk to your financial advisor, or call us at **(800) 257-8787**. Please read the information provided carefully before you invest. Investors should consider the investment objective and policies, risk considerations, charges and expenses of any investment carefully. Where applicable, be sure to obtain a prospectus, which contains this and other relevant information. To obtain a prospectus, please contact your securities representative or **Nuveen Investments, 333 W. Wacker Dr., Chicago, IL 60606**. Please read the prospectus carefully before you invest or send money.

Learn more about Nuveen Funds at: [www.nuveen.com/cef](http://www.nuveen.com/cef)

**Nuveen makes things e-simple.**

It only takes a minute to sign up for e-Reports. Once enrolled, you'll receive an e-mail as soon as your Nuveen Fund information is ready - no more waiting for delivery by regular mail. Just click on the link within the e-mail to see the report and save it on your computer if you wish.

**Free e-Reports right to your e-mail!**

[www.investordelivery.com](http://www.investordelivery.com)

If you receive your Nuveen Fund distributions and statements from your financial advisor or brokerage account.

**OR**

[www.nuveen.com/accountaccess](http://www.nuveen.com/accountaccess)

If you receive your Nuveen Fund distributions and statements directly from Nuveen.

Distributed by  
Nuveen Investments, LLC

333 West Wacker Drive  
Chicago, IL 60606  
[www.nuveen.com](http://www.nuveen.com)  
ESA-I-0610D

---

ITEM 2. CODE OF ETHICS.

Not applicable to this filing.

ITEM 3. AUDIT COMMITTEE FINANCIAL EXPERT.

Not applicable to this filing.

ITEM 4. PRINCIPAL ACCOUNTANT FEES AND SERVICES.

Not applicable to this filing.

ITEM 5. AUDIT COMMITTEE OF LISTED REGISTRANTS.

Not applicable to this filing.

ITEM 6. SCHEDULE OF INVESTMENTS.

(a) See Portfolio of Investments in Item 1.

(b) Not applicable.

ITEM 7. DISCLOSURE OF PROXY VOTING POLICIES AND PROCEDURES FOR CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

Not applicable to this filing.

ITEM 8. PORTFOLIO MANAGERS OF CLOSED-END MANAGEMENT INVESTMENT COMPANIES.

Not applicable to this filing.

ITEM 9. PURCHASES OF EQUITY SECURITIES BY CLOSED-END MANAGEMENT INVESTMENT COMPANY AND AFFILIATED PURCHASERS.

Period*	(a) TOTAL NUMBER OF SHARES (OR UNITS) PURCHASED	(b) AVERAGE PRICE PAID PER SHARE (OR UNIT)	(c) TOTAL NUMBER OF SHARES (OR UNITS) PURCHASED AS PART OF PUBLICLY ANNOUNCED PLANS OR PROGRAMS	(d)* MAXIMUM NUMBER (OR APPROXIMATE DOLLAR VALUE) OF SHARES (OR UNITS) THAT MAY YET BE PURCHASED UNDER THE PLANS OR PROGRAMS
JANUARY 1-31, 2010	0		0	1,462,500
FEBRUARY 1-28, 2010	0		0	1,462,500
MARCH 1-31, 2010	0		0	1,462,500
APRIL 1-30, 2010	0		0	1,462,500
MAY 1-31, 2009	7,100	10.36	7,100	1,455,400
JUNE 1-30, 2009	0		0	1,455,400
TOTAL	7,100			

\* The registrant's repurchase program, which authorized the repurchase of 1,620,000 shares, was announced October 3, 2009. Any

repurchases  
made by the  
registrant  
pursuant to the  
program were  
made through  
open-market  
transactions.

**ITEM 10. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS.**

There have been no material changes to the procedures by which shareholders may recommend nominees to the Registrant's Board implemented after the registrant last provided disclosure in response to this item.

**ITEM 11. CONTROLS AND PROCEDURES.**

- (a) The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act") (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rules 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934, as amended (the "Exchange Act") (17 CFR 240.13a-15(b) or 240.15d-15(b)).
- (b) There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act (17 CFR 270.30a-3(d))) that occurred during the second fiscal quarter of the period covered by this report that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

**ITEM 12. EXHIBITS.**

File the exhibits listed below as part of this Form.

(a)(1) Any code of ethics, or amendment thereto, that is the subject of the disclosure required by Item 2, to the extent that the registrant intends to satisfy the Item 2 requirements through filing of an exhibit: Not applicable to this filing.

(a)(2) A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)) in the exact form set forth below: Ex-99.CERT attached hereto.

(a)(3) Any written solicitation to purchase securities under Rule 23c-1 under the 1940 Act (17 CFR 270.23c-1) sent or given during the period covered by the report by or on behalf of the registrant to 10 or more persons: Not applicable.

(b) If the report is filed under Section 13(a) or 15(d) of the Exchange Act, provide the certifications required by Rule 30a-2(b) under the 1940 Act (17 CFR 270.30a-2(b)); Rule 13a-14(b) or Rule 15d-14(b) under the Exchange Act (17 CFR 240.13a-14(b) or 240.15d-14(b)), and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. 1350) as an exhibit. A certification furnished pursuant to this paragraph will not be deemed filed for purposes of Section 18 of the Exchange Act (15 U.S.C. 78r), or otherwise subject to the liability of that section. Such certification will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Exchange Act, except to the extent that the registrant specifically incorporates it by reference. Ex-99.906 CERT attached hereto.

---

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Nuveen Core Equity Alpha Fund

By (Signature and Title) /s/ Kevin J. McCarthy  
Kevin J. McCarthy  
Vice President and Secretary

Date: September 8, 2010

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title) /s/ Gifford R. Zimmerman  
Gifford R. Zimmerman  
Chief Administrative Officer  
(principal executive officer)

Date: September 8, 2010

By (Signature and Title) /s/ Stephen D. Foy  
Stephen D. Foy  
Vice President and Controller  
(principal financial officer)

Date: September 8, 2010