

Nuveen Core Equity Alpha Fund
Form 3
March 27, 2007

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting
Person *

Â Runnels Joseph

(Last) (First) (Middle)

2401 PGA BLVD, SUITE
100,Â C/O INTECH

(Street)

PALM BEACH
GARDENS,Â FLÂ 33410

(City) (State) (Zip)

2. Date of Event Requiring
Statement

(Month/Day/Year)

03/27/2007

3. Issuer Name **and** Ticker or Trading Symbol
Nuveen Core Equity Alpha Fund [JCE]

4. Relationship of Reporting
Person(s) to Issuer

5. If Amendment, Date Original
Filed(Month/Day/Year)

(Check all applicable)

___ Director ___ 10% Owner

___ Officer ___X___ Other
(give title below) (specify below)

Portfolio Manager

6. Individual or Joint/Group
Filing(Check Applicable Line)

___X___ Form filed by One Reporting
Person

___ Form filed by More than One
Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security
(Instr. 4)

2. Amount of Securities
Beneficially Owned
(Instr. 4)

3. Ownership
Form:
Direct (D)
or Indirect
(I)
(Instr. 5)

4. Nature of Indirect Beneficial
Ownership
(Instr. 5)

Reminder: Report on a separate line for each class of securities beneficially
owned directly or indirectly.

SEC 1473 (7-02)

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form displays a
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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security
(Instr. 4)

2. Date Exercisable and
Expiration Date
(Month/Day/Year)

Date Expiration
Exercisable Date

3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)

Title Amount or
Number of
Shares

4. Conversion
or Exercise
Price of
Derivative
Security

5. Ownership
Form of
Derivative
Security:
Direct (D)
or Indirect
(I)

6. Nature of Indirect
Beneficial Ownership
(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Runnels Joseph 2401 PGA BLVD, SUITE 100 C/O INTECH PALM BEACH GARDENS, FL 33410	Â	Â	Â	Portfolio Manager

Signatures

By: Jessica R. Droeger, Signed
under POA 03/27/2007

__Signature of Reporting Person

Date

Explanation of Responses:

No securities are beneficially owned

* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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