

CME GROUP INC.  
Form 4  
September 15, 2010

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

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**STATEMENT OF CHANGES IN 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 \*  
DONOHUE CRAIG S

(Last) (First) (Middle)

20 S. WACKER DRIVE

(Street)

CHICAGO, IL 60606

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
CME GROUP INC. [CME]

3. Date of Earliest Transaction  
(Month/Day/Year)  
09/14/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
CEO

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock Class A	09/14/2010		M	1,500	A \$ 22	28,234 <sup>(1)</sup>	D
Common Stock Class A	09/14/2010		M	5,000	A \$ 63.01	33,234 <sup>(1)</sup>	D

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

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SEC 1474 (9-02)

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Security (Instr. 3 and 4)
Non-Qualified Stock Option (right to buy)	\$ 22	09/14/2010		M	1,500	05/07/2005 <sup>(2)</sup> 05/07/2011	Common Stock Class A
Non-Qualified Stock Option (right to buy)	\$ 63.01	09/14/2010		M	5,000	06/06/2008 <sup>(3)</sup> 06/06/2013	Common Stock Class A

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
DONOHUE CRAIG S 20 S. WACKER DRIVE CHICAGO, IL 60606	X		CEO	

## Signatures

By: Margaret C. Austin For: Craig S. Donohue 09/15/2010

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(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).

On September 14, 2010, Mr. Donohue increased his beneficial ownership in CME Group Class A shares by 6,500 shares. Mr. Donohue is now the beneficial owner of 33,234 CME Group Class A shares with a market value of approximately \$9 million, based on the closing price of \$269.32 on September 14, 2010. Mr. Donohue paid approximately \$900,000 in cash, to satisfy his tax withholding obligations and the exercise price associated with his exercise of 6,500 options with exercise prices of \$22.00 (1,500 options) and \$63.01 (5,000 options).

(1) On May 7, 2005, this option vested with respect to 100% of the granted number of shares covered by the option.

(2) On June 6, 2008, this option vested with respect to 100% of the granted number of shares covered by the option.

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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