CME GROUP INC.

Form 4

August 29, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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January 31, 2005

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response...

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

1(b).

(Last)

(City)

(Print or Type Responses)

1. Name and Address of Reporting Person * Cermak Mark E

(First) (Middle)

20 S. WACKER DRIVE

(Street)

(State)

2. Issuer Name and Ticker or Trading Symbol

CME GROUP INC. [CME]

3. Date of Earliest Transaction

(Month/Day/Year) 08/27/2007

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

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

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 Acquired, Disposed of, or Beneficially Owned

CHICAGO, IL 60606

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) Code

(Zip)

(Month/Day/Year)

4. Securities TransactionAcquired (A) or Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

Transaction(s) or (Instr. 3 and 4) Price

(A)

Code V Amount (D)

Common

Stock Class 08/27/2007

108 (1) A A

\$0

10,657.125 D

I

by Spouse

Common

A

A

Stock Class

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

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18.75

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 | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|---------------|-------------|-----------|--------------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transactio | onNumber | Expiration D | ate | Amoun | t of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underly | ying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securit | ies | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. 3 | 3 and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | • | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | A manuat | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | Or Number | | |
| | | | | | | Exercisable | Date | | Number | | |
| | | | | C + V | (A) (D) | | | | of | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

| Reporting Owner Name / Address | F - | | | | | | | |
|--------------------------------|------------|-----------|---------|-------|--|--|--|--|
| | Director | 10% Owner | Officer | Other | | | | |
| C 11/15 | | | | | | | | |

Cermak Mark E 20 S. WACKER DRIVE X CHICAGO, IL 60606

Signatures

By: Margaret C. Austin For: Mark E. 08/29/2007 Cemak

> **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).

Relationships

In connection with the merger of CBOT Holdings Inc. with and into Chicago Mercantile Exchange Holdings Inc. (now named "CME Group"), the Board size was increased to 30 directors and this director was appointed to the Board pursuant to the merger effective as of July 12, 2007. The grant represents the pro rata portion of the annual equity stipend as compensation for services as a Board member and was made under the 2005 Director Stock Plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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