Piell Hilda Harris Form 4 September 17, 2010

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL

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January 31, Expires: 2005

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Check this box if no longer subject to Section 16. Form 4 or

SECURITIES

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

Common Stock

Class A Common Stock

Class A

09/15/2010

09/15/2010

(Print or Type Responses)

1. Name and A Piell Hilda	g Person *	2. Issuer Name and Ticker or Trading Symbol CME GROUP INC. [CME]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			(Circu	ж ин иррнеиоте	,	
20 S. WACKER DRIVE			(Month/I 09/15/2	Day/Year) 010		Director 10% OwnerX Officer (give title Other (specify below) MD & Chief HR Officer			
(Street)			4. If Amendment, Date Original			6. Individual or Joint/Group Filing(Check			
CHICAGO, IL 60606 (City) (State) (Zip)			Filed(Month/Day/Year)			Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Tab	le I - Non-I	Derivative Securities Acq	quired, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	2. Transaction Da (Month/Day/Year	ransaction Date 2A. Deemed nth/Day/Year) Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)	4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	

Code V Amount

744

44 (1)

A

F

(D)

A

Price

\$0

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

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(Instr. 3 and 4)

D

D

1,583

1,539

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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. Transact Code (Instr. 8)	5. Number iomf 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 Ame Underlying Sect (Instr. 3 and 4)	
					Code V	/ (A) (D)	Date Exercisable	Expiration Date	Title	An or No of Sh
St	on-Qualified ock Option ight to buy)	\$ 271.49	09/15/2010		A	1,668	09/15/2011 <u>(2)</u>	09/15/2020	Common Stock Class A	1

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Piell Hilda Harris 20 S. WACKER DRIVE CHICAGO, IL 60606

MD & Chief HR Officer

Signatures

By: Margaret C. Austin For: Hilda L. Piell 09/17/2010

**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).
- (1) Ms. Piell surrendered shares to the Company in order to fulfill tax withholding obligations upon the vesting of restricted stock on September 15, 2010.
- (2) These options were granted on September 15, 2010. They vest over a four-year period, with 25% vesting one year after the grant date and 25% vesting on that same date in each of the following three years, subject to acceleration or termination in certain circumstances.

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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