FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	hours per response:	0.5							

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person * Pieper James V_{\star}							2. Issuer Name and Ticker or Trading Symbol CME GROUP INC. [CME]								neck all app Dired	olicable) ctor	041	Owner	
(Last) (First) (Middle) 20 S. WACKER DRIVE							3. Date of Earliest Transaction (Month/Day/Year) 12/15/2010									er (give title w) ID & CAO	X Other below	´	
(Street) CHICAGO IL 60606 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									e) X Forr Forr	ividual or Joint/Group Filing (Check Applicable 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. Transac Date (Month/Da						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)					l Secur Benef	rities ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	Amount	(A (D) or)	Price	Trans	action(s) 3 and 4)		(111501.4)			
Common	Stock Class	/2010	2010		F		72 ⁽¹⁾		D	\$318	.4	810	D						
		Та	ble II - D								sed of, onvertib				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security				Code (8)	ransaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		ount	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. Mr. Pieper surrendered shares to the Company in order to fulfill tax withholding obligations upon the vesting of restricted stock on December 15, 2010.

By: Margaret C. Austin For: James V. Pieper

12/17/2010

** Signature of Reporting Person

Date

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

- * 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.