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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

1. Name and Add KRAUSE J	1 0	Person*	2. Issuer Name and Ticker or Trading Symbol <u>CHICAGO MERCANTILE EXCHANGE</u> <u>HOLDINGS INC</u> [CME]		tionship of Reporting Pers all applicable) Director Officer (give title	son(s) to Issuer 10% Owner Other (specify
			3. Date of Earliest Transaction (Month/Day/Year) 08/15/2006		below) MD & CI	below)
(Street) CHICAGO IL 60606			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing Form filed by One Repo Form filed by More thar	orting Person
(City)	(State)	(Zip)	ivative Securities Acquired, Disposed of, or Benef	icially	Person Ó	

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)	Transaction Code (Instr.		4. Securities Disposed Of (5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock Class A	08/15/2006		М		5,000	Α	\$63.01	7,680	D	
Common Stock Class A	08/15/2006		S		5,000(1)	D	\$466.52	2,680	D	

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. Transa Code (8)		of Deri Sec Acq (A) Disp of (I	oosed D) tr. 3, 4	6. Date Exerci Expiration Dat (Month/Day/Ye	te	nd 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$63.01	08/15/2006		М			5,000	06/06/2006 ⁽²⁾	06/06/2013	Common Stock Class A	5,000	\$0	3,900	D	

Explanation of Responses:

1. This sale was completed pursuant to the terms of a pre-arranged trading plan established in accordance with rule 10b5-1.

2. On June 6, 2006, this option vested with respect to 60% of the granted number of shares covered by the option. On the anniversary of that date in each of the two subsequent years, the option will vest with respect to an additional 20% of the shares covered by the option, subject to acceleration or termination in certain circumstances.

By: Margaret C Austin For:	08/17/2006
<u>Krause, James R</u>	00/1//2000

** 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.