Froetscher Janet P Form 4 June 17, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

Number:

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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).

(Print or Type Responses)

1. Name and Address of Reporting Person * Froetscher Janet P

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

(First) (Last)

CBOE Holdings, Inc. [CBOE]

3. Date of Earliest Transaction

(Check all applicable)

(State)

(Month/Day/Year) 06/15/2010

Filed(Month/Day/Year)

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

C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

(Street)

(Middle)

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

CHICAGO, IL 60605

(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

4. Securities 3. TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5)

5. Amount of 7. Nature of 6. Ownership Securities Indirect Beneficially Form: Direct Beneficial Owned (D) or Ownership Following Indirect (I) (Instr. 4) (Instr. 4)

(A) or

Reported Transaction(s)

(Instr. 3 and 4)

Unrestricted

Common 06/15/2010 Stock

(D) Price Code V Amount \$0 Α

7,547

D

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

(Month/Day/Year)

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SEC 1474 (9-02)

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

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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. Transactio Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D)			7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	(Instr. 3, 4, and 5) (A) (D)	Date Exercisable	Expiration Date	or Title Nu of	umber		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Froetscher Janet P C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605	X						
Cianoturos							

Signatures

/s/ Patrick Sexton, attorney-in-fact 06/17/2010

**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) Represents a restricted stock award granted under the Company's Long-Term Incentive Plan, which meets the requirements of Rule 16b-3.

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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