SKINNER SAMUEL K Form 3 June 14, 2010 UNITED STATES SECURITIES AND EXCHANGE COMMISSION FORM 3 Washington, D.C. 20549 OMB

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

OMB APPROVAL

3235-0104 Number: January 31, Expires: 2005 Estimated average burden hours per response... 0.5

(Print or Type Responses)

1. Title (Instr. 4

1. Name and Address of Reporting Person <u>*</u> SKINNER SAMUEL K			2. Date of Eve Statement (Month/Day/Y		3. Issuer Name and Ticker or Trading Symbol CBOE Holdings, Inc. [CBOE]					
(Last)	(First)	(Middle)	06/14/2010		4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year)		
C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET (Street)					(Check all applicable) <u>X</u> Director Officer (give title below) (specify below)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting		
CHICAGO, IL 60605								Person Form filed by More than One Reporting Person		
(City)	(State)	(Zip)		Table I - N	Non-Deriva	tive Securit	ies Be	neficially Owned		
1.Title of Secur (Instr. 4)	ity			2. Amount of Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Na Owne (Instr	1		
Reminder: Report on a separate line for each class of securities be owned directly or indirectly.			rities benefici	ially S	SEC 1473 (7-0)	2)				
	inform	ation conta	pond to the co ained in this f nd unless the	orm are not						

currently valid OMB control number.

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

e of Derivative Security 4)	Expiration Date		Securities Underlying		4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security	Security: Direct (D)	

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Shares

or Indirect (I) (Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
SKINNER SAMUEL K C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605	ÂX	Â	Â	Â				
Signatures								
/s/ Patrick Sexton, attorney-in-fact	06/14	/2010						
**Signature of Reporting Person	Da	ite						
Explanation of Responses:								

No securities are beneficially owned

- * If the form is filed by more than one reporting person, *see* Instruction 5(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).

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Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

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.