Griffith Bradley G Form 4 June 18, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB

3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

Estimated average burden hours per 0.5 response...

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

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

1(b).

Common

(Print or Type Responses)

1. Name and Address of Reporting Person * Griffith Bradley G			2. Issuer Name and Ticker or Trading Symbol CBOE Holdings, Inc. [CBOE]						5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction						(Check all applicable)			
C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET			(Month/Day/Year) 06/18/2010					_	_X_ Director10% Owner Other (specify below)			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)					6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person				
CHICAGO, II							Form filed by More than One Reporting Person					
(City)	(State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)	any		Deemed cution Date, if nth/Day/Year)	Code		4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)			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)	
Class A				Code	V	Amount	(D)	Price	(Instr. 3 and 4)			
Common Stock	06/18/201	0		J <u>(1)</u>	V	80,000	A	<u>(1)</u>	80,000	D		
Class A Common Stock	06/18/201	0		J(2)	V	80,000	D	<u>(2)</u>	0	D		
Class A-1 Common Stock (3)	06/18/201	0		J(2)	V	40,000	A	<u>(2)</u>	40,000	D		
Class A-2	06/18/201	0		J(2)	V	40,000	A	<u>(2)</u>	40,000	D		

Stock (3)

Unrestricted

Common 06/18/2010 $P_{\underline{4}}$ 300 A \$ 29 7,847 D

Stock

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

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 control number.

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(9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

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 (Instr.	ection 8)	5. inNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Secur	unt of rlying	8. Price of Derivative Security (Instr. 5)
				Code	V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

Reporting Owners

Reporting Owner Name / Address	Relationships						
. 9	Director	10% Owner	Officer	Other			
Griffith Bradley G C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605	X						
<u> </u>							

Signatures

/s/ Patrick Sexton, attorney-in-fact 06/18/2010

**Signature of Reporting Person Da

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 shares of Class A Common Stock received from the Company in connection with the Company's restructuring transaction, a merger exempt from Section 16(b) pursuant to Rule 16b-7 and approved by the board of directors of the Company in accordance with

Reporting Owners 2

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Rule 16b-3.

- Pursuant to a reclassification exempt under Rule 16b-7, each share of Class A Common Stock not sold in the Company's initial public offering converted into one-half of one share of Class A-1 Common Stock and one-half of one share of Class A-2 Common Stock upon completion of the Company's initial public offering.
- Each issued and outstanding share of Class A-1 Common Stock and Class A-2 Common Stock shall automatically convert (without any action by the holder) into one share of Unrestricted Common Stock on the one hundred eightieth (180th) and three hundred sixtieth
- (3) (360th) day, respectively, following the date that shares of CBOE Holdings Unrestricted Common Stock are issued in the Company's initial public offering, subject in each case to the Company's right to delay such conversion in connection with an organized sale.
- (4) Purchased pursuant to CBOE Holding, Inc.'s reserved share program in connection with its initial public offering.

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.