Londergan Benjamin R Form 4 September 20, 2012

Check this box

if no longer

subject to

Section 16.

FORM 4

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

OMB Number:

3235-0287

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January 31, 2005

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response...

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 4 or Form 5 obligations may continue. See Instruction

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 Ad- Londergan Be	•	rting Person *	2. Issuer Name and Ticker or Trading Symbol CBOE Holdings, Inc. [CBOE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check an applicable)			
C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET			(Month/Day/Year) 09/18/2012	X Director 10% Owner Officer (give title below) Other (specify below)			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
CHICAGO, IL 60605			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Ac	quired, Disposed of, or Beneficially Owned			

(City)	(State) (Zip,	Table I -	Non-D	eri	vative Sec	uritie	s Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)		4. Securities on Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Unrestricted Common Stock	09/18/2012		S <u>(1)</u>		100	D	\$ 30	31,438	I	By Group One Trading, L.P. (2)
Unrestricted Common Stock	09/19/2012		S <u>(1)</u>		4,900	D	\$ 30	26,538	I	By Group One Trading, L.P. (2)
Unrestricted Common Stock								10,332	D	

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

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SEC 1474 (9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	e and	8. Price of	9
Derivativ	e Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	ate	Amou	nt of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired						J
					(A) or						J
					Disposed						-
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									Amount		
									or		
						Date	Expiration	Titla			
						Exercisable Date	Date	Title			
				Code V	(A) (D)						
				Code V	(A) (D)	Exercisable	*	Title	Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			

Londergan Benjamin R C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605

X

Signatures

Patrick Sexton, attorney-in-fact 09/20/2012

**Signature of Reporting Person Dat

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).

Deletionships

- (1) The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by Group One Trading, L.P.
- (2) Reflects shares owned by Group One Trading, L.P. Mr. Londergan is chief executive officer of Group One Trading, L.P. Mr. Londergan disclaims beneficial ownership of those shares in which he does not have a pecuniary interest.

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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