Londergan Benjamin R Form 4 November 29, 2010

FORM 4

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

Check this box if no longer subject to Section 16.

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).

Class A-2

Common

Stock

11/24/2010

(Print or Type Responses)

1. Name and A Londergan I	Person * 2. Issue Symbol	2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer			
	CBOE :	CBOE Holdings, Inc. [CBOE]			(Check all applicable)			
(Last)	(First) (M	Giddle) 3. Date of	f Earliest Tra	ansaction				
		(Month/Γ	Day/Year)		_X_ Director	10%	6 Owner	
C/O CBOE SOUTH LA	,	11/24/2010			Officer (give title Other (speci below)			
	4. If Ame	4. If Amendment, Date Original			6. Individual or Joint/Group Filing(Check			
CHICAGO,	IL 60605	Filed(Mo	nth/Day/Year)			One Reporting Po		
(City)	(State) (Zip) Tab	le I - Non-D	erivative Securities Ac	equired, Disposed	of, or Beneficia	lly Owned	
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities	5. Amount of	6. Ownership	7. Nature o	
Security	(Month/Day/Year)	Execution Date, if	TransactionAcquired (A) or		Securities	Form: Direct	Indirect	
(Instr. 3)		any	Code	Disposed of (D)	Beneficially	(D) or	Beneficial	
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership	
					Following	(Instr. 4)	(Instr. 4)	
				(4)	Reported			

(A)

or

D

Price

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

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Transaction(s)

(Instr. 3 and 4)

Ι

\$ 25 22,538 (1)

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

Code V Amount (D)

D

7,462

(1)(2)

By Group

Trading,

(9-02)

One

L.P.

OMB APPROVAL

3235-0287

January 31,

2005

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Number:

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response...

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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. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D)		ate	7. Title Amoun Underly Securiti (Instr. 3	t of ying es	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V	(Instr. 3, 4, and 5) (A) (D)	Date Exercisable	Expiration Date	Title N	Amount or 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

**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) 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.
- (2) Reflects shares tendered in the Company's tender offer, 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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