O'Connell Gerald T Form 4 February 08, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Check this box

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 Address of Reporting Person * O'Connell Gerald T

2. Issuer Name and Ticker or Trading Symbol

CBOE Holdings, Inc. [CBOE]

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year)

02/06/2013

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

5. Relationship of Reporting Person(s) to

below) Executive VP and CIO

(Check all applicable)

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

(Street)

(State)

(Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

Issuer

CHICAGO, IL 60605

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of Securities Ownership Indirect (Instr. 3) Code (D) Beneficially Form: Direct Beneficial Ownership (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned (D) or Indirect (I) Following (Instr. 4) Reported (Instr. 4) (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

Unrestricted Common

(City)

02/06/2013

A 19,866 Α

\$0 91,726 D

Stock

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

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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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	e and	8. Price of	9. Nu
	Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate Amou		nt of	Derivative	Deriv
	Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
	(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)	Bene
		Derivative			Securities				(Instr.	3 and 4)		Owne
		Security				Acquired						Follo
		·				(A) or						Repo
						Disposed						Trans
						of (D)						(Instr
						(Instr. 3, 4, and 5)						`
										Amount		
							Date Exercisable	Expiration Date	Title	or		
										Number		
										of		
					Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

O'Connell Gerald T C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605

Executive VP and CIO

Signatures

/s/ Patrick Sexton, attorney-in-fact

02/08/2013

**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).

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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