

CBOE Holdings, Inc.
 Form 4
 February 17, 2017

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN 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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Moffic-Silver Joanne

(Last) (First) (Middle)

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

(Street)

CHICAGO, IL 60605

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 CBOE Holdings, Inc. [CBOE]

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/15/2017

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Executive VP, GC, and Corp Sec

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	02/15/2017		A ⁽¹⁾	6,033	A \$ 0	68,841	D
Common Stock	02/16/2017		F ⁽²⁾	1,914	D \$ 80.16	66,927	D

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

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SEC 1474 (9-02)

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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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V (A) (D)		Date Exercisable Expiration Date	Title Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Moffic-Silver Joanne C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605			Executive VP, GC, and Corp Sec	

Signatures

/s/ Patrick Sexton, 02/17/2017
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) Represents shares of the Issuer's common stock issued to the Reporting Person pursuant to the vesting of the restricted stock unit awards - performance based ("PSUs") that were awarded to the Reporting Person on February 19, 2014. The issuance was based on the level of achievement by the Issuer of certain pre-established performance metrics for the performance period January 1, 2014 to December 31, 2016 as certified by the Compensation Committee on February 15, 2017.
- (2) Represents shares of the Issuer's common stock withheld to satisfy the Issuer's tax withholding obligation upon the vesting of PSUs and the issuance of the underlying shares of the Issuer's common stock.

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.