CBOE Holdings, Inc.

Form 4

February 17, 2017

FORM 4

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

OMB Number: 3235-0287

Estimated average

Expires:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

January 31, 2005

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

OMB APPROVAL

1(b).

(Print or Type Responses)

See Instruction

| Name and Address of Reporting Moffic-Silver Joanne | ng 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 | | | | |
| | | (Month/Day/Year) | Director 10% Owner | | | |
| C/O CBOE HOLDINGS, INC., 400 SOUTH LASALLE STREET | | 02/15/2017 | X Officer (give title Other (specify below) Executive VP, GC, and Corp Sec | | | |
| (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 | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | |
|------------------------|--------------------------------------|-------------------------------|--|--------------|--------------|---------------|--|----------------------------|-------------------------|--|--|
| 1.Title of Security | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if | 3. | 4. Securi | | | 5. Amount of Securities | 6. Ownership Form: Direct | 7. Nature of Indirect | | |
| (Instr. 3) | (Monui/Day/Tear) | any | Code (Instr. 3, 4 and 5) | | Beneficially | (D) or | Beneficial | | | | |
| | | (Month/Day/Year) | (Instr. 8) | | (A) or | | Owned Following Reported Transaction(s) (Instr. 3 and 4) | Indirect (I) (Instr. 4) | Ownership (Instr. 4) | | |
| Common Stock | 02/15/2017 | | Code V $A_{\underline{(1)}}$ | Amount 6,033 | (D) | Price \$ 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 | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|---------------|-------------|-----------|--------------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transactio | onNumber | Expiration D | ate | Amoun | t of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underly | ying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securit | ies | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. 3 | 3 and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | • | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | A manuat | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | Or Number | | |
| | | | | | | Exercisable | Date | | Number | | |
| | | | | C + V | (A) (D) | | | | of | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

Relationships Reporting Owner Name / Address

> Other Director 10% Owner Officer

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

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).
- 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.
- 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.

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