

Duffy Mark F  
 Form 5  
 February 14, 2011

# FORM 5

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
 Duffy Mark F

(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. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
 12/31/2010

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)

6. Individual or Joint/Group Reporting

(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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|---|
|                                 |                                      |  |                                | (A) or (D) Price  |  |  |   |
| Class A-1 Common Stock          | 12/15/2010                           | ^  | J                              | 155,000 (1) (2) D \$ 0 0  |  | I  | By Fugue, General Partnership                         |
| Unrestricted Common Stock       | 12/15/2010                           | ^  | J                              | 155,000 (1) (2) A \$ 0 155,000 (1)                                |  | I  | By Fugue, General Partnership                         |
|                                 | ^                                    | ^  | ^                              | ^ ^ ^ 7,547   |  | D  | ^   |

Unrestricted  
Common  
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)

| 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. of D Se B O E Is Fi (I |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---------------------------|
|  |  |                                      |  |                                | (A) (D)   | Date Exercisable Expiration Date                         | Title Amount or Number of Shares                              |  |                           |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| Duffy Mark F<br>C/O CBOE HOLDINGS, INC.<br>400 SOUTH LASALLE STREET<br>CHICAGO, IL 60605 | Â X           | Â         | Â       | Â     |

## Signatures

/s/ Patrick Sexton,  
attorney-in-fact

02/11/2011

\*\*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 Fugue, General Partnership ("Fugue"). Mr. Duffy is the trustee of the Mark F. Duffy Trust, which is a general partner of Fugue and owns 50% of the partnership interests of Fugue. Mr. Duffy disclaims beneficial ownership of those shares in which he does not have a pecuniary interest.

(2) Each share of Class A-1 Common Stock automatically converted (without any action by the holder) into one share of Unrestricted Common Stock pursuant to a reclassification exempt under Rule 16b-7.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, see Instruction 6 for procedure.

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