CBOE Hold Form 4 February 22	•									
	February 22, 2017 OMB APPROVAL OMB APPROVAL									
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549								3235-0287		
Check th if no long	Tor			Expires:	January 31,					
subject to Section 1 Form 4 c Form 5	6. Dr	DF CHANGES IN SECUE	RITIES			Estimated a burden hou response	•			
Form 5 obligations may continue. See Instruction 1(b). 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 A Tilly Edwar	Symbol	2. Issuer Name and Ticker or Trading Symbol CBOE Holdings, Inc. [CBOE]				5. Relationship of Reporting Person(s) to Issuer				
(Last)	(First) (Middle)	C .	_			(Check all applicable)				
C/O CBOE SOUTH LA	(Month/Day/Year) 02/19/2017	· · · · · · · · · · · · · · · · · · ·				_X_ Director 10% Owner _X_ Officer (give title Other (specify below) below) Chief Executive Officer				
(Street) 4. If Ame Filed(Mon			ate Origina r)	l		6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person				
CHICAGO, IL 60605 — Form filed by More than One Reporting Person							porting			
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										
1.Title of Security (Instr. 3)	2. Transaction Date 2A. Do (Month/Day/Year) Execution (Monthing) (Monthing)		4. Securi on(A) or D (Instr. 3,	isposed	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)			
G		Code V	Amount	(D)	Price	(Instr. 3 and 4)				
Common Stock	02/19/2017	М	5,374	А	\$ 80.94	86,565	D			
Common Stock	02/19/2017	М	5,380	А	\$ 80.94	91,945	D			
Common Stock	02/19/2017	М	6,742	А	\$ 80.94	98,687	D			
Common Stock	02/19/2017	F	2,456	D	\$ 80.94	96,231	D			
Common Stock	02/19/2017	F	2,459	D	\$ 80.94	93,772	D			

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F

Common 02/19/2017 Stock

3,082 D ^{\$}/_{80.94} 90,690

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02) required to respond unless the form displays a currently valid OMB control number.

D

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owner	d
(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. Transactio Code (Instr. 8)	5. Number of orDerivative 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)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Restricted Stock Units	<u>(1)</u>	02/19/2017		М		5,374	02/19/2017	(2)	Common Stock	5,374
Restricted Stock Units	<u>(1)</u>	02/19/2017		М		5,380	02/19/2017	(3)	Common Stock	5,380
Restricted Stock Units	<u>(1)</u>	02/19/2017		М		6,742	02/19/2017	<u>(4)</u>	Common Stock	6,742
Restricted Stock Units	<u>(1)</u>	02/19/2017		А	18,657		(5)	(5)	Common Stock	18,657
Restricted Stock Units	(1)	02/19/2017		А	31,095		(5)	(5)	Common Stock	31,095

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Tilly Edward T C/O CBOE HOLDINGS, INC. 400 SOUTH LASALLE STREET CHICAGO, IL 60605	Х		Chief Executive Officer				

Signatures

/s/ Patrick Sexton, attorney-in-fact

02/22/2017

**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) Each restricted stock unit represents a contingent right to receive one share of CBOE Holdings, Inc. common stock.
- (2) The restricted stock units vest in three equal annual installments, which began on February 19, 2015.
- (3) The restricted stock units vest in three equal annual installments, which began on February 19, 2016.
- (4) The restricted stock units vest in three equal annual installments, which began on February 19, 2017.
- (5) The restricted stock units vest in three equal annual installments beginning on February 19, 2018.

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.