Frost Bert A Form 4 November 22, 2017

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

OMB APPROVAL

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if no longer subject to Section 16. Form 4 or Form 5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Frost Bert A

2. Issuer Name and Ticker or Trading Symbol

CF Industries Holdings, Inc. [CF]

5. Relationship of Reporting Person(s) to

Issuer

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year)

11/21/2017

Director 10% Owner Other (specify _X__ Officer (give title

below)

(Check all applicable)

Sr.VP, Sales, Mkt Dev Supp. Chn

C/O CF INDUSTRIES HOLDINGS. INC., 4 PARKWAY NORTH, SUITE 400

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

DEERFIELD, IL 60015

(City)	(State)	(Zip) Tab	le I - Non-	Derivative	e Secu	rities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securi or Dispo (Instr. 3,	sed of		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common stock, par value \$0.01 per share	11/21/2017		Code V	Amount 7,500		Price \$ 9.728	(Instr. 3 and 4) 67,232	D	
Common stock, par value \$0.01 per share	11/21/2017		S	7,500	D	\$ 36.5045 (1)	59,732	D	

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

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SEC 1474 (9-02)

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. Transacti Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exer Expiration E (Month/Day)	ate	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Option (right to buy)	\$ 9.728	11/21/2017		M	7,500	(3)	12/11/2018	Common Stock, par value \$0.01 per share	7,500

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Frost Bert A C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400 DEERFIELD, IL 60015

Sr.VP, Sales, Mkt Dev Supp. Chn

Signatures

/s/ Douglas C. Barnard, by power of attorney

11/22/2017

**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).

The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$36.50 to \$36.52, inclusive. The reporting person undertakes to provide to CF Industries Holdings, Inc., any security holder of CF Industries Holdings, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within that range.

Reporting Owners 2

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- (2) This employee stock option was last reported as covering 6,235 shares of common stock at an exercise price of \$48.64, but has been adjusted to reflect the 5-for-1 stock split that occurred on June 17, 2015.
- (3) The options vested in three equal installments on December 11, 2009, 2010, and 2011.

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.