O'Brien Rosemary L Form 3 February 13, 2018

FORM 3

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

OMB APPROVAL

OMB Number:

3235-0104

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF Expires:

January 31, 2005

Estimated average burden hours per

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

SECURITIES

response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement CF Industries Holdings, Inc. [CF] O'Brien Rosemary L (Month/Day/Year) 02/07/2018 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O CF INDUSTRIES (Check all applicable) HOLDINGS, INC., 4 PARKWAY NORTH, SUITE 10% Owner Director 400 _X__ Officer Other (give title below) (specify below) (Street) 6. Individual or Joint/Group VP, Public Affairs Filing(Check Applicable Line) _X_ Form filed by One Reporting Person DEERFIELD, ÂILÂ 60015 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 2. Amount of Securities 4. Nature of Indirect Beneficial 1. Title of Security Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) (Instr. 5) Form: Direct (D) or Indirect (Instr. 5) Â Common stock, par value \$0.01 per share 30,473 D Reminder: Report on a separate line for each class of securities beneficially

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owned directly or indirectly.

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial Ownership
	(Month/Day/Year)	Derivative Security	or Exercise	Form of	(Instr. 5)

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	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	
Employee Stock Option (right to buy)	(1)	08/11/2018	Common stock, par value \$0.01 per share	6,200	\$ 25.066	D	Â
Employee Stock Option (right to buy)	(2)	08/10/2019	Common stock, par value \$0.01 per share	5,000	\$ 16.406	D	Â
Employee Stock Option (right to buy)	(3)	08/10/2020	Common stock, par value \$0.01 per share	8,500	\$ 16.26	D	Â
Employee Stock Option (right to buy)	(4)	08/10/2021	Common stock, par value \$0.01 per share	5,700	\$ 29.918	D	Â
Employee Stock Option (right to buy)	(5)	08/10/2022	Common stock, par value \$0.01 per share	6,100	\$ 41.59	D	Â
Employee Stock Option (right to buy)	(6)	08/12/2023	Common stock, par value \$0.01 per share	11,100	\$ 38.024	D	Â
Employee Stock Option (right to buy)	(7)	03/03/2024	Common stock, par value \$0.01 per share	16,450	\$ 51.174	D	Â
Employee Stock Option (right to buy)	(8)	03/03/2025	Common stock, par value \$0.01 per share	12,865	\$ 62.246	D	Â
	(9)	03/03/2026		23,410	\$ 36.19	D	Â

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Employee Stock Option (right to buy)			Common stock, par value \$0.01 per share					
Employee Stock Option (right to buy)	(10)	03/03/2027	Common stock, par value \$0.01 per share	29,370	\$ 30.95	D	Â	

Reporting Owners

Reporting Owner Name / Address	Relationships					
• 0	Director	10% Owner	Officer	Other		
O'Brien Rosemary L C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400	Â	Â	VP, Public Affairs	Â		
DEERFIELD. IL 60015						

Signatures

/s/ Douglas C. Barnard, by power of attorney 02/09/2018

**Signature of Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 5(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).

Date

- (1) The options vested in three equal installments on August 11, 2009, 2010, and 2011.
- (2) The options vested in three equal installments on August 10, 2010, 2011, and 2012.
- (3) The options vested in three equal installments on August 10, 2011, 2012, and 2013.
- (4) The options vested in three equal installments on August 10, 2012, 2013, and 2014.
- (5) The options vested in three equal installments on August 10, 2013, 2014, and 2015.
- (6) The options vested in three equal installments on August 12, 2014, 2015, and 2016.
- (7) The options vested in three equal installments on March 3, 2015, 2016, and 2017.
- (8) The options vest in three equal installments on March 3, 2016, 2017, and 2018.
- (9) The options vest in three equal installments on March 3, 2017, 2018, and 2019.
- (10) The options vest in three equal installments on March 3, 2018, 2019, and 2020.



Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

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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