

O'Brien Rosemary L  
 Form 3  
 February 13, 2018

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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

(Print or Type Responses)

1. Name and Address of Reporting Person *		2. Date of Event Requiring Statement	3. Issuer Name <b>and</b> Ticker or Trading Symbol	
Â O'Brien Rosemary L		(Month/Day/Year)	CF Industries Holdings, Inc. [CF]	
(Last)	(First)	(Middle)	02/07/2018	
C/O CF INDUSTRIES HOLDINGS, INC., Â 4 PARKWAY NORTH, SUITE 400			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
DEERFIELD, Â IL Â 60015			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			VP, Public Affairs	

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common stock, par value \$0.01 per share	30,473	D	Â

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

SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security	4. Conversion or Exercise	5. Ownership Form of	6. Nature of Indirect Beneficial Ownership (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)	Â <u>(1)</u>	08/11/2018	Common stock, par value \$0.01 per share	6,200	\$ 25.066	D	Â
Employee Stock Option (right to buy)	Â <u>(2)</u>	08/10/2019	Common stock, par value \$0.01 per share	5,000	\$ 16.406	D	Â
Employee Stock Option (right to buy)	Â <u>(3)</u>	08/10/2020	Common stock, par value \$0.01 per share	8,500	\$ 16.26	D	Â
Employee Stock Option (right to buy)	Â <u>(4)</u>	08/10/2021	Common stock, par value \$0.01 per share	5,700	\$ 29.918	D	Â
Employee Stock Option (right to buy)	Â <u>(5)</u>	08/10/2022	Common stock, par value \$0.01 per share	6,100	\$ 41.59	D	Â
Employee Stock Option (right to buy)	Â <u>(6)</u>	08/12/2023	Common stock, par value \$0.01 per share	11,100	\$ 38.024	D	Â
Employee Stock Option (right to buy)	Â <u>(7)</u>	03/03/2024	Common stock, par value \$0.01 per share	16,450	\$ 51.174	D	Â
Employee Stock Option (right to buy)	Â <u>(8)</u>	03/03/2025	Common stock, par value \$0.01 per share	12,865	\$ 62.246	D	Â
	Â <u>(9)</u>	03/03/2026		23,410	\$ 36.19	D	Â

