O'Brien Rosemary L Form 4 January 04, 2019

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB

Washington, D.C. 20549

3235-0287 Number: January 31,

2005

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OMB APPROVAL

if no longer subject to Section 16. Form 4 or

Check this box

Expires: STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF Estimated average

SECURITIES

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Form 5 obligations may continue. See Instruction

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * O'Brien Rosemary L

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

CF Industries Holdings, Inc. [CF]

(Check all applicable)

(Last)

(First) (Middle) 3. Date of Earliest Transaction

(Month/Day/Year) 01/02/2019

Director 10% Owner Other (specify

C/O CF INDUSTRIES HOLDINGS.

(Zip)

INC., 4 PARKWAY NORTH,

SUITE 400

(City)

X_ Officer (give title below)

VP, Public Affairs

(Street)

(State)

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| | | Table | : 1 - MOII-D | ciivative | Secui | ines Acqu | ili cu, Disposcu oi | , or beneficial | 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) | ransaction(A) or Disposed of (D) ode (Instr. 3, 4 and 5) | | d of (D) | 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) |
| | | | Code V | Amount | or (D) | Price | (Instr. 3 and 4) | | |
| Common stock, par value \$0.01 per share | 01/02/2019 | | A | 3,817 | A | \$0 | 33,832 | D | |
| Common stock, par value \$0.01 per share | 01/02/2019 | | F | 600 | D | \$ 42.03 | 33,232 | D | |

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 | 2. Conversion | 3. Transaction Date (Month/Day/Year) | | 4. Transacti | 5. orNumber | 6. Date Exerc Expiration Da | | 7. Title | | 8. Price of Derivative | 9. Nu Deriv |
|------------------------|---------------------------------------------------|--------------------------------------|----------------------|--------------------|-------------------------------------------------------------------------------|--------------------------------|--------------------|--------------------|----------------------------------------|------------------------|-----------------------------------------------------------|
| Security (Instr. 3) | or Exercise Price of Derivative Security | (manazay, 16ar) | any (Month/Day/Year) | Code (Instr. 8) | of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | (Month/Day/ | | Underly Securit | ying | Security (Instr. 5) | Secur Bene Owne Follo Repo Trans (Instr |
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title 1 | Amount or Number of Shares | | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

O'Brien Rosemary L C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400 DEERFIELD, IL 60015

VP, Public Affairs

Signatures

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

01/04/2019

**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).

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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