

Wilson Stephen R
 Form 4
 November 16, 2010

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN 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 *
 Wilson Stephen R

(Last) (First) (Middle)

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

(Street)

DEERFIELD, IL 60015

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 CF Industries Holdings, Inc. [CF]

3. Date of Earliest Transaction
 (Month/Day/Year)
 11/15/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)
 Chairman, President, CEO

6. Individual or Joint/Group Filing(Check Applicable Line)

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

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|--|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common stock, par value \$0.01 per share | 11/15/2010 | | M ⁽¹⁾ | | 10,000 | A | \$ 16 |
| | | | | | | | 140,596 |
| Common stock, par value \$0.01 per share | 11/15/2010 | | S ⁽¹⁾ | | 800 | D | \$ 119.6426 |
| | | | | | | | 139,796 |
| | 11/15/2010 | | S ⁽¹⁾ | | 1,800 | D | |
| | | | | | | | 137,996 |

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| | | | | | | | | |
|--|------------|------------------------|-----|---|------------|----------|---|--|
| Common stock, par value \$0.01 per share | | | | | \$ | 120.0395 | | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 120.105 | 137,796 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.19 | 137,696 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 900 | D | \$ 120.31 | 136,796 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.32 | 136,696 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 600 | D | \$ 120.34 | 136,096 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 120.645 | 135,896 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 120.76 | 135,696 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.8 | 135,596 | D | |
| | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.83 | 135,496 | D | |

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| | | | | | | | |
|--|------------|------------------------|-------|---|-------------|---------|---|
| Common stock, par value \$0.01 per share | | | | | | | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.85 | 135,396 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 120.9 | 135,196 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 1,300 | D | \$ 120.9277 | 133,896 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 32 | D | \$ 120.94 | 133,864 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 68 | D | \$ 120.95 | 133,796 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 120.98 | 133,696 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 121 | 133,496 | D |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 121.031 | 133,396 | D |
| | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | | 133,196 | D |

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| | | | | | | | | |
|--|------------|------------------------|-----|---|------------|----------|---|--|
| Common stock, par value \$0.01 per share | | | | | \$ | 121.0375 | | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 121.041 | 133,096 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 121.06 | 132,896 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 121.11 | 132,796 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 400 | D | \$ 121.185 | 132,396 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 300 | D | \$ 121.2 | 132,096 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 121.21 | 131,996 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 100 | D | \$ 121.211 | 131,896 | D | |
| Common stock, par value \$0.01 per share | 11/15/2010 | <u>S⁽¹⁾</u> | 200 | D | \$ 121.22 | 131,696 | D | |
| | 11/15/2010 | <u>S⁽¹⁾</u> | 700 | D | | 130,996 | D | |

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Common stock, par value \$0.01 per share \$ 121.2693

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

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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. Transaction Code (Instr. 8) | 5. Number of Derivative 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 Shares |
| Employee Stock Option (right to buy) | \$ 16 | 10/15/2010 | | M ⁽¹⁾ | 10,000 | ⁽²⁾ 08/10/2015 | Common stock, par value \$0.01 per share 10,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|--------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Wilson Stephen R C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400 DEERFIELD, IL 60015 | X | | Chairman, President, CEO | |

Signatures

/s/ Douglas C. Barnard, by power of attorney 11/16/2010

**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) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 30, 2010.
- (2) The options vest in three equal installments on August 10, 2006, 2007, and 2008.

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.