

Wilson Stephen R  
 Form 4  
 December 16, 2010

**FORM 4**

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

OMB APPROVAL

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**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)  
 12/15/2010

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 | 12/15/2010                           |  | M <sup>(1)</sup>               |   | 10,000  | A  | \$ 16                                      | 140,596 | D |
| Common stock, par value \$0.01 per share | 12/15/2010                           |  | S <sup>(1)</sup>               |   | 100   | D  | \$ 116.36                                  | 140,496 | D |
|  | 12/15/2010                           |  | S <sup>(1)</sup>               |   | 100   | D  | \$ 116.37                                  | 140,396 | D |

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|  |            |                        |       |   |            |         |   |
|--|------------|------------------------|-------|---|------------|---------|---|
| Common stock, par value \$0.01 per share |            |                        |       |   |            |         |   |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 3,100 | D | \$ 116.97  | 137,296 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 100   | D | \$ 117.15  | 137,196 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 3,500 | D | \$ 117.416 | 133,696 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 900   | D | \$ 117.42  | 132,796 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 400   | D | \$ 117.46  | 132,396 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 100   | D | \$ 117.48  | 132,296 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 300   | D | \$ 117.5   | 131,996 | D |
| Common stock, par value \$0.01 per share | 12/15/2010 | <u>S<sup>(1)</sup></u> | 100   | D | \$ 117.505 | 131,896 | D |
|  | 12/15/2010 | <u>S<sup>(1)</sup></u> | 200   | D | \$ 117.55  | 131,696 | D |

Common stock, par value \$0.01 per share

Common stock, par value \$0.01 per share

12/15/2010

S<sup>(1)</sup>

100

D

\$ 117.5675

131,596

D

Common stock, par value \$0.01 per share

12/15/2010

S<sup>(1)</sup>

100

D

\$ 117.57

131,496

D

Common stock, par value \$0.01 per share

12/15/2010

S<sup>(1)</sup>

100

D

\$ 117.75

131,396

D

Common stock, par value \$0.01 per share

12/15/2010

S<sup>(1)</sup>

700

D

\$ 117.76

130,696

D

Common stock, par value \$0.01 per share

12/15/2010

S<sup>(1)</sup>

100

D

\$ 117.7675

130,596

D

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

**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.**

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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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|

