

Wilson Stephen R  
Form 4  
February 16, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

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)  
02/15/2011

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	02/15/2011		M <sup>(1)</sup>		20,000	A	\$ 16
					150,596	D	
Common stock, par value \$0.01 per share	02/15/2011		M <sup>(1)</sup>		50,000	A	\$ 16
					200,596	D	
	02/15/2011		S <sup>(1)</sup>		25,328	D	
					175,268	D	

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Common stock, par value \$0.01 per share					\$ 143.9668		
					<u>(2)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	20,292	D	\$ 144.6086	154,976	D
					<u>(3)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	11,861	D	\$ 145.8155	143,115	D
					<u>(4)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	2,750	D	\$ 146.5102	140,365	D
					<u>(5)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	1,852	D	\$ 147.8594	138,513	D
					<u>(6)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	1,800	D	\$ 149.325	136,713	D
					<u>(7)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	5,400	D	\$ 150.7743	131,313	D
					<u>(8)</u>		
Common stock, par value \$0.01 per share	02/15/2011	<u>S(1)</u>	717	D	\$ 151.3152	130,596	D
					<u>(9)</u>		

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 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	02/15/2011		M <sup>(1)</sup>	20,000	<sup>(10)</sup> 08/10/2015	Common stock, par value \$0.01 per share 20,000
Employee Stock Option (right to buy)	\$ 16	02/15/2011		M <sup>(1)</sup>	50,000	<sup>(10)</sup> 08/10/2015	Common stock, par value \$0.01 per share 50,000

## 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  
Date: 02/16/2011

\_\_Signature of Reporting Person

## 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 on this Form 4 were effected pursuant to a Rule 10b5-1 trading plans adopted by the reporting person on August 30, 2010 and November 30, 2010.
- (2) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$143.3 to \$144.295, inclusive. The reporting person undertakes to provide to CF Industries Holdings, Inc., any security holder of CF Industries Holdings, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnotes (2) through (9) to this Form 4.

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- (3) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$144.3 to \$145.29, inclusive.
- (4) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$145.3013 to \$146.30, inclusive.
- (5) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$146.31 to \$147.25, inclusive.
- (6) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$147.4 to \$148.26, inclusive.
- (7) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$148.95 to \$149.55, inclusive.
- (8) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$150.25 to \$151.24, inclusive.
- (9) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$151.31 to \$151.34, inclusive.
- (10) 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.

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