

Wilson Stephen R
 Form 4
 November 16, 2010

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

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

(Last) (First) (Middle)
 C/O CF INDUSTRIES HOLDINGS, INC., 4 PARKWAY NORTH, SUITE 400
 (Street)

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

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

DEERFIELD, IL 60015

(City) (State) (Zip)

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 or Price		
Common stock, par value \$0.01 per share	11/15/2010		M ⁽¹⁾		10,000 A \$ 16	140,596	D
Common stock, par value \$0.01 per share	11/15/2010		S ⁽¹⁾		800 D \$ 119.6426	139,796	D
	11/15/2010		S ⁽¹⁾		1,800 D	137,996	D

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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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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	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.