

Barnard Douglas C
 Form 4
 November 19, 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 *
 Barnard Douglas C

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)
 VP, General Counsel & Secretary

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

3. Date of Earliest Transaction (Month/Day/Year)
 11/17/2010

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 Ownership (Instr. 4)
				Code	V Amount or Price			
Common stock, par value \$0.01 per share	11/17/2010		M	10,000	A \$ 14.83	29,827	D	
Common stock, par value \$0.01 per share	11/17/2010		S	4,183	D \$ 114.12	25,644	D	
	11/17/2010		S	200	D	25,444	D	

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Common stock, par value \$0.01 per share					\$ 114.1247		
Common stock, par value \$0.01 per share	11/17/2010	S	100	D	\$ 114.1248	25,344	D
Common stock, par value \$0.01 per share	11/17/2010	S	200	D	\$ 114.1265	25,144	D
Common stock, par value \$0.01 per share	11/17/2010	S	100	D	\$ 114.13	25,044	D
Common stock, par value \$0.01 per share	11/17/2010	S	100	D	\$ 114.14	24,944	D
Common stock, par value \$0.01 per share	11/17/2010	S	117	D	\$ 114.2	24,827	D
Common stock, par value \$0.01 per share	11/17/2010	S	5,000	D	\$ 116.14	19,827	D
Common stock, par value \$0.01 per share	11/18/2010	M	5,000	A	\$ 14.83	24,827	D
Common stock, par value \$0.01 per share	11/18/2010	S	5,000	D	\$ 120.783	19,827	D

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

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(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)		
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
						Code	V	(A)	(D)
Employee Stock Option (right to buy)	\$ 14.83	11/17/2010		M	10,000	<u>(1)</u> 08/10/2016		Common stock, par value \$0.01 per share	10,000
Employee Stock Option (right to buy)	\$ 14.83	11/18/2010		M	5,000	<u>(1)</u> 08/10/2016		Common stock, par value \$0.01 per share	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Barnard Douglas C C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400 DEERFIELD, IL 60015			VP, General Counsel & Secretary	

Signatures

/s/ Douglas C. Barnard
11/19/2010

**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 options vest in three equal installments on August 10, 2007, 2008, and 2009.

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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