Barnard Douglas C Form 4 August 12, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287 January 31, Expires: 2005

0.5

OMB APPROVAL

Estimated average burden hours per response...

10% Owner

if no longer subject to Section 16. Form 4 or Form 5

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

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

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year)

08/10/2010

(Check all applicable)

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

SUITE 400

Other (specify X_ Officer (give title below)

VP, Gen. Counsel & Secretary

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

Director

Applicable Line)

Filed(Month/Day/Year)

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

DEERFIELD, IL 60015

(City)	(State) (Z	Zip) Table	I - Non-Do	erivative	Securi	ities Acq	quired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securion(A) or D (D) (Instr. 3,	4 and (A) or	d of	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 Beneficial Ownership (Instr. 4)
Common stock, par value \$0.01 per share	08/10/2010		Code V A	Amount 2,300	(D)	Price	20,564	D	
Common stock, par value \$0.01 per share	08/10/2010		F	737	D	\$ 81.3	19,827	D	

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. Transacti Code (Instr. 8)	5. Number one Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exer Expiration D (Month/Day)	ate	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)	\$ 81.3	08/10/2010		A	6,600	<u>(1)</u>	08/10/2020	Common stock, par value \$0.01 per share	6,600

Reporting Owners

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

Signatures

/s/ Douglas C.

Barnard 08/12/2010

**Signature of Person Date

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 options vest in three equal installments on August 10, 2011, 2012, and 2013.

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.

Reporting Owners 2