Barnard Douglas C Form 4 March 03, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL 3235-0287

OMB Number:

Expires:

January 31, 2005

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obligations

Check this box

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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Middle)

1(b).

(Last)

(Instr. 3)

(Print or Type Responses)

1. Name and Address of Reporting Person * Barnard Douglas C

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

CF Industries Holdings, Inc. [CF] 3. Date of Earliest Transaction

(Check all applicable)

C/O CF INDUSTRIES HOLDINGS.

(First)

03/02/2009

(Month/Day/Year)

Director 10% Owner X_ Officer (give title Other (specify below)

INC., 4 PARKWAY NORTH,

below) VP, Gen. Counsel & Secretary

SUITE 400

(Street)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year) Applicable Line)

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

DEERFIELD, IL 60015

(City) (State) (Zip) 1. Title of 2. Transaction Date 2A. Deemed Security

3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8)

5. Amount of 6. Ownership Securities Form: Direct Beneficially (D) or Indirect Beneficial Owned (I)

Ownership (Instr. 4) Following (Instr. 4) Reported

7. Nature of

Indirect

(A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

3. Transaction Date 3A. Deemed 1. Title of 5. Number 6. Date Exercisable and 7. Title and Amount of 8. Price (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date Underlying Securities Deriva Conversion

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Security (Instr. 3)	or Exercise Price of Derivative Security	f tive	any (Month/Day/Year)	Code Secur (Instr. 8) Acqui (A) or Dispo (D) (Instr. and 5)		d d of	(Month/Day/Year)		(Instr. 3 and 4)		Securi (Instr.
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock	(1)	03/02/2009		A	4.252		<u>(1)</u>	<u>(1)</u>	Common stock, par value \$0.01 per share	4.252	\$ 58

Reporting Owners

Reporting Owner Name / Address	Relationships						
. 6	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 03/03/2009

**Signature of Pate 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).

Each share of phantom stock is the economic equivalent of one share of CF Industries Holdings, Inc. common stock. Shares of phantom (1) stock are payable in cash following the reporting person's termination of employment with CF Industries Holdings, Inc. and may be transferred by the reporting person into an alternative investment account in accordance with the terms of the plan.

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.

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