Barnard Douglas C Form 5 January 16, 2007

FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number: January 31,

no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box if

Expires: 2005 Estimated average burden hours per

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

response... 1.0

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940

Form 4 Transactions

Reported

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Barnard Douglas C Symbol

CF Industries Holdings, Inc. [CF]

(Check all applicable) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) (Middle)

> (Month/Day/Year) Director 10% Owner X _ Officer (give title 12/31/2006 Other (specify below) below)

C/O CF INDUSTRIES HOLDINGS, INC., ONE SALEM LAKE DRIVE

(Street)

4. If Amendment, Date Original 6. Individual or Joint/Group Reporting

Filed(Month/Day/Year)

(check applicable line)

VP, Gen. Counsel & Secretary

LONG GROVE, ILÂ 60047

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

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Acquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 3, 4 and 5) Owned at end Indirect (I) Ownership (Instr. 8) of Issuer's (Instr. 4) (Instr. 4) (A) Fiscal Year

or (Instr. 3 and 4)

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 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

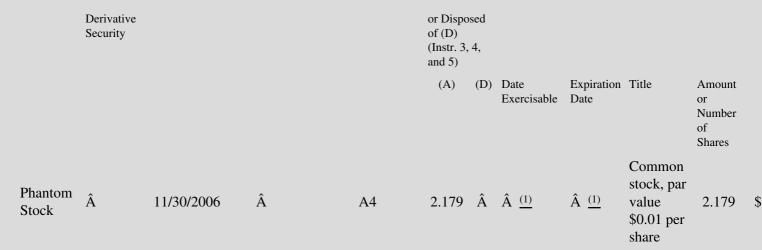
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount of	8.
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Derivative	Expiration Date	Underlying Securities	De
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)	Se
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A)			(In

SEC 2270

(9-02)

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Reporting Owners

Reporting Owner Name / Address	Relationships				
1	Director	10% Owner	Officer	Other	
Barnard Douglas C C/O CF INDUSTRIES HOLDINGS, INC. ONE SALEM LAKE DRIVE LONG GROVE, IL 60047	Â	Â	VP, Gen. Counsel & Secretary	Â	

Signatures

/s/ Douglas C.
Barnard

**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).
- 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 provided 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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