

ARZBAECHER ROBERT C

Form 4

May 12, 2006

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 *
 ARZBAECHER ROBERT C

(Last) (First) (Middle)

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

(Street)

LONG GROVE, IL 60047

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
 Symbol

CF Industries Holdings, Inc. [CF]

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

05/10/2006

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

5. Relationship of Reporting Person(s) to
 Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check
 Applicable Line)

☒ Form filed by One Reporting Person
☐ Form filed by More than One Reporting
 Person

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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock, par value \$0.01 per share	05/10/2006		A		3,713	A	\$ 0 12,776
						D	

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

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 information contained in this form are not
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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)**

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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)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repor Trans (Instr
							Amount or Number of Shares		
							Title		
							Date Exercisable	Expiration Date	
							Code	V	(A) (D)

Reporting Owners

Reporting Owner Name / Address	Relationships
	Director10% OwnerOfficerOther
ARZBAECHER ROBERT C C/O CF INDUSTRIES HOLDINGS, INC. ONE SALEM LAKE DRIVE LONG GROVE, IL 60047	X

Signatures

/s/ Douglas C. Barnard, by power of attorney	05/12/2006
**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).

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.