CF Industries Holdings, Inc.

Form 4

February 21, 2007

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES** 

January 31, Expires: 2005 Estimated average

0.5

**OMB APPROVAL** 

Form 4 or Form 5 obligations may continue. See Instruction

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

burden hours per response...

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \*

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Mugica Fernando A

Symbol CF Industries Holdings, Inc. [CF]

(Check all applicable)

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

Director 10% Owner Other (specify X\_ Officer (give title below)

C/O CF INDUSTRIES HOLDINGS.

02/20/2007

below) VP, Supply and Logistics

INC., ONE SALEM LAKE DRIVE

(Street)

(State)

(Middle)

(Zip)

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

Person n Dominative Committee Appring Disposed of an Domeficially Or

#### LONG GROVE, IL 60047

(City)

(City)	(State)	Table	e I - Non-D	erivative S	Securi	ties Acqu	ired, Disposed of	, or Beneficiall	y 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)	(Instr. 3, 4	sposed 4 and 5 (A) or	of (D)	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	02/20/2007		Code V  M	Amount 15,000	(D)	Price	20,400	D	
Common stock, par value \$0.01 per share	02/20/2007		S	15,000	D	\$ 37.43	5,400	D	

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)

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# 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 of orDerivative 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Option (right to buy)	\$ 16	02/20/2007		M	15,000	<u>(1)</u>	08/10/2015	Common stock, par value \$0.01 per share	15,000

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Mugica Fernando A

C/O CF INDUSTRIES HOLDINGS, INC.

ONE SALEM LAKE DRIVE

LONG GROVE, IL 60047

VP, Supply and Logistics

# **Signatures**

/s/ Douglas C. Barnard, by power of attorney

02/21/2007

\*\*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, 2006, 2007, and 2008.

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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