

CF Industries Holdings, Inc.

Form 4

August 12, 2008

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

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

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
Chase Stephen G

(Last) (First) (Middle)

C/O CF INDUSTRIES HOLDINGS,
INC., 4 PARKWAY NORTH,
SUITE 400

(Street)

DEERFIELD, IL 60015

(City) (State) (Zip)

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

CF Industries Holdings, Inc. [CF]

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

08/11/2008

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

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

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

VP, Corporate Planning

6. Individual or Joint/Group Filing(Check
Applicable Line)
__X__ 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)
Common stock, par value \$0.01 per share	08/11/2008		M ⁽¹⁾	20,000 A \$ 16	30,093	D	
Common stock, par value \$0.01 per share	08/11/2008		S ⁽¹⁾	20,000 D \$ 133.2008	10,093	D	
	08/11/2008		M ⁽¹⁾	3,900 A \$ 14.83	13,993	D	

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Common
stock, par
value
\$0.01 per
share

Common
stock, par
value
\$0.01 per
share

08/11/2008

S⁽¹⁾

3,900

D

\$
133.2008

10,093

D

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

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(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. 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)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Employee Stock Option (right to buy)	\$ 16	08/11/2008		M ⁽¹⁾	20,000	⁽²⁾ 08/10/2015	Common stock, par value \$0.01 per share 20,000
Employee Stock Option (right to buy)	\$ 14.83	08/11/2008		M ⁽¹⁾	3,900	⁽³⁾ 08/10/2016	Common stock, par value \$0.01 per share 3,900

Reporting Owners

Reporting Owner Name / Address

Relationships

Director

10% Owner

Officer

Other

Chase Stephen G
C/O CF INDUSTRIES HOLDINGS, INC.
4 PARKWAY NORTH, SUITE 400
DEERFIELD, IL 60015

VP,
Corporate
Planning

Signatures

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

08/12/2008

__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 sales reported in this Form 4 were effected pursuant to Rule 10b5-1 trading plans adopted by the reporting person on May 16, 2008.
- (2) The options vest in three equal installments on August 10, 2006, 2007, and 2008.
- (3) The options vest in three equal installments on August 10, 2007, 2008, and 2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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