ARZBAECHER ROBERT C

Form 4 May 18, 2010

FORM 4

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

OMB APPROVAL

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

Estimated average burden hours per

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

response...

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue.

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

SECURITIES

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * ARZBAECHER ROBERT C				2. Issuer Symbol	r Name and	Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer				
				CF Indu	ıstries Ho	ldings, Inc. [CF]	(Check all applicable)				
	(Last) (First) (Middle)		3. Date of	f Earliest Tr	ansaction						
				(Month/D	Day/Year)		X Director	10%	Owner		
C/O CF INDUSTRIES HOLDINGS,				05/18/2	010			titleOthe	er (specify		
	INC., 4 PARI	KWAY NOR	ГН,				below)	below)			
	SUITE 400										
(Street)				4. If Ame	ndment, Da	te Original	6. Individual or Joint/Group Filing(Check				
				Filed(Mor	nth/Day/Year)	Applicable Line)				
							_X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
DEERFIELD, IL 60015											
	(City)	(State)	(Zip)	Tabl	le I - Non-D	Perivative Securities Acq	uired, Disposed of	, or Beneficial	ly Owne		
	1.Title of	2. Transaction Da	oto 24 Door	mad	3.	4 Constitue Acquired	5 Amount of	6 Oumarchin	7 Notes		
		2. Transaction Day/Yea				4. Securities Acquired on(A) or Disposed of (D)	5. Amount of Securities	6. Ownership Form: Direct			
	(Instr 3)	(1110111111111111111111111111111111111	any	, n Duic, n		(Instr. 3. A and 5)	Reneficially	(D) or	Renefic		

(City)	(State) (Table	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed of	, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		
Common			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		
Stock, par value \$0.01 per share	05/18/2010		P	475	A	\$ 72.99	475	I	By IRA
Common Stock, par value \$0.01 per share							19,077	D	

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

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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)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Titl	le and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration D	ate	Amou	ınt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Secur	ities	(Instr. 5)	Bene
	Derivative				Securities	3		(Instr.	. 3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	Title	or Number		
						Exercisable	Date	Title	of		
				Codo V	(A) (D)						
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

ARZBAECHER ROBERT C C/O CF INDUSTRIES HOLDINGS, INC. 4 PARKWAY NORTH, SUITE 400 DEERFIELD, IL 60015

X

Signatures

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

05/18/2010

**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.

Reporting Owners 2