CF Industries Holdings, Inc. Form SC 13G/A February 16, 2010

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G/A

UNDER THE SECURITIES EXCHANGE ACT OF 1934

Amendment No. 1

CF Industries Holdings, Inc.

(Name of Issuer)

COMMON STOCK, PAR VALUE \$0.01 per share

(Title of Class of Securities)

125269100 -----(CUSIP Number)

December 31, 2009

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

|_| Rule 13d-1(b)

|X| Rule 13d-1(c)

|_| Rule 13d-1(d)

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act.

(Continued on following pages)

(Page 1 of 15 Pages)

CUSIP NO. 125269100 13G/A Page 2 of 15 Pages -----

¹ NAME OF REPORTING PERSON
I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)

	TPG-Axon Capit	al Mana	agement, LP ("TPG-Axon Management")					
2	CHECK THE APPR	OPRIATI	E BOX IF A MEMBER OF A GROUP		X _			
3	SEC USE ONLY							
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware							
	NUMBER OF SHARES	5	SOLE VOTING POWER					
	BENEFICIALLY	6	SHARED VOTING POWER					
			1,150,000 shares of Common Stock					
	OWNED BY	7	SOLE DISPOSITIVE POWER					
	EACH		0					
	REPORTING		0					
	PERSON	8	SHARED DISPOSITIVE POWER					
	WITH		1,150,000 shares of Common Stock					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON							
	1,150,000 shar	es of (Common Stock					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES							
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)							
	2.37%*							
12	TYPE OF REPORTING PERSON							
	PN							
CUSIP	NO. 125269100		13G/A Page	3 of 15 P	ages			
1	NAME OF REPORT		RSON N NO. OF ABOVE PERSON (ENTITIES ONLY)					
	TPG-Axon Partn	ers GP,	, LP ("PartnersGP")					

2						X _	
3	SEC USE ONLY						
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware						
	NUMBER OF SHARES	5	SOLE VOTING POWER				
	BENEFICIALLY	6	SHARED VOTING POWER 371,984 shares of Common Stock				
	OWNED BY EACH REPORTING	7	SOLE DISPOSITIVE POWER				
	PERSON WITH	8	SHARED DISPOSITIVE POWER 371,984 shares of Common Stock				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 371,984 shares of Common Stock						
10	CHECK BOX IF T	HE AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN SHA	RES		
11	PERCENT OF CLA	SS REPRES	SENTED BY AMOUNT IN ROW (9)				
12	TYPE OF REPORT	ING PERSO	ON				
CUSIP	NO. 125269100		13G/A	Page 4 of			
1		ICATION 1	ON NO. OF ABOVE PERSON (ENTITIES ON	ILY)			
2	CHECK THE APPR	OPRIATE I	BOX IF A MEMBER OF A GROUP		(a)	X	

3	SEC USE ONLY							
4	CITIZENSHIP OR Delaware	PLACE OF	ORGANIZATION					
		5	SOLE VOTING POWER					
	SHARES		0					
	BENEFICIALLY	6	SHARED VOTING POWER					
			1,150,000 shares of Common Sto	ock				
	OWNED BY	7	SOLE DISPOSITIVE POWER					
	EACH		0					
	REPORTING							
	PERSON	8	SHARED DISPOSITIVE POWER					
	WITH		1,150,000 shares of Common Sto	ock				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON							
	1,150,000 share	es of Com	mon Stock					
10	CHECK BOX IF TH	HE AGGREG	ATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN SH	ARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)							
	2.37%*							
12	TYPE OF REPORTING PERSON							
	00							
	NO. 125269100		13G/A	Page 5 of	15 Pa	 ages		
1	NAME OF REPORT							
	TPG-Axon Partne	ers, LP ("TPG-Axon Domestic")					
2	CHECK THE APPRO	OPRIATE B	OX IF A MEMBER OF A GROUP		(a)	X _		
3	SEC USE ONLY							

4	CITIZENSHIP OR Delaware	PLACE OF	'ORGANIZATION			
	NUMBER OF SHARES	5	SOLE VOTING POWER			
			0			
	BENEFICIALLY	6	SHARED VOTING POWER			
			371,984 shares of Common Stock	k 		
	OWNED BY	7	SOLE DISPOSITIVE POWER			
	EACH		0			
	REPORTING		O			
	PERSON	8	SHARED DISPOSITIVE POWER			
	WITH		371,984 shares of Common Stock	k		
9	AGGREGATE AMOU	NT BENEFI	CIALLY OWNED BY EACH REPORTING	PERSON		
	371,984 shares	of Commo	on Stock			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	0.77%* 					
12	TYPE OF REPORTING PERSON					
	PN					
	NO. 125269100		13G/A	Page 6 of 15 Pages		
1	NAME OF REPORT		ON IO. OF ABOVE PERSON (ENTITIES ON	NLY)		
	TPG-Axon Partne	ers (Offs	shore), Ltd. ("TPG-Axon Offshore	e")		
2			OX IF A MEMBER OF A GROUP	(a) X (b) _		
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLACE OF				

	Cayman Islands						
	NUMBER OF	5	SOLE VOTING POWER				
	SHARES		0				
	BENEFICIALLY	6	SHARED VOTING POWER				
			778,016 shares of Common Sto	ck			
	OWNED BY	7	SOLE DISPOSITIVE POWER				
	EACH		0				
	REPORTING		0				
	PERSON	8	SHARED DISPOSITIVE POWER				
	WITH		778,016 shares of Common Sto	ck			
9	AGGREGATE AMOU	NT BENE	FICIALLY OWNED BY EACH REPORTIN	G PERSON			
	778,016 shares	778,016 shares of Common Stock					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	1.60%*						
12	TYPE OF REPORTING PERSON						
	CO						
	P NO. 125269100		13G/A	Page 7 of 15 Page:			
1		-	RSON N NO. OF ABOVE PERSON (ENTITIES	ONLY)			
	Dinakar Singh	LLC ("S					
2			BOX IF A MEMBER OF A GROUP	(a) X (b) _			
3							
4	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
	NUMBER OF	5	SOLE VOTING POWER	- -			

	SHARES		0			
	BENEFICIALLY	6	SHARED VOTING POWER			
			1,150,000 shares of Common St	ock		
	OWNED BY	7	SOLE DISPOSITIVE POWER			
	EACH		0			
	REPORTING		0			
	PERSON	8	SHARED DISPOSITIVE POWER			
	WITH		1,150,000 shares of Common St	ock		
9	AGGREGATE AMOUN	NT BENEF	CICIALLY OWNED BY EACH REPORTING	F PERSON		
	1,150,000 share	es of Co	ommon Stock			
10	CHECK BOX IF TH	HE AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN SHARES		
11	PERCENT OF CLAS	SS REPRE	SENTED BY AMOUNT IN ROW (9)			
	2.37%*					
12	TYPE OF REPORTING PERSON					
	00					
CUSIP	NO. 125269100		13G/A	Page 8 of 15 Pages		
1	NAME OF REPORTI		ON NO. OF ABOVE PERSON (ENTITIES C	NLY)		
	Dinakar Singh (("Mr. Si	.ngh")			
2			BOX IF A MEMBER OF A GROUP	(a) X (b) _		
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLACE C	OF ORGANIZATION			
	USA					
	NUMBER OF SHARES	5	SOLE VOTING POWER			
	OHAILEO		0			

	BENEFICIALLY	6	SHARED VOTING POWER			
			1,150,000 shares of Common Sto	ck		
	OWNED BY	7	SOLE DISPOSITIVE POWER			
	EACH		0			
	REPORTING					
	PERSON	8	SHARED DISPOSITIVE POWER			
	WITH		1,150,000 shares of Common Sto	ck		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1,150,000 shares of Common Stock					
10	CHECK BOX IF TH	E AGGREG.	ATE AMOUNT IN ROW (9) EXCLUDES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.37%*					
12	TYPE OF REPORTING PERSON					
	IN					
CUSIP	NO. 125269100		13G/A	Page 9 of 15 Pages		

ITEM 1.

- (a) NAME OF ISSUER: CF Industries Holdings, Inc.
- (b) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

4 Parkway North, Suite 400 Deerfield, Illinois 60015

ITEM 2.

2(a). NAME OF PERSON FILING:

This statement is filed by the entities and persons listed below, all of whom together are referred to herein as the "Reporting Persons":

- (i) TPG-Axon Capital Management, LP ("TPG-Axon Management"), a Delaware limited partnership, with respect to the Shares reported in this Schedule 13G/A held by TPG-Axon Partners, LP ("TPG-Axon Domestic") and TPG-Axon Partners (Offshore), Ltd. ("TPG-Axon Offshore," and together with TPG-Axon Domestic the "Funds").
- (ii) TPG-Axon Partners GP, LP ("PartnersGP"), a Delaware limited

partnership which serves as the general partner of TPG-Axon Domestic, with respect to the Shares reported in this Schedule 13G/A managed by TPG-Axon Management and held by TPG-Axon Domestic.

- (iii) TPG-Axon GP, LLC ("GPLLC"), a Delaware limited liability company, which serves as the general partner of TPG-Axon Management and PartnersGP, with respect to the Shares reported in this Schedule 13G/A managed by TPG-Axon Management and held by the Funds.
- (iv) TPG-Axon Domestic, a Delaware limited partnership, with respect to the Shares reported in this Schedule 13G/A directly held by it.
- TPG-Axon Offshore, a Cayman Islands exempted company, with respect to the Shares reported in this Schedule 13G/A directly held by it.
- (vi) Dinakar Singh LLC ("Singh LLC"), a Delaware limited liability company which serves as the managing member of GPLLC, with respect to the Shares reported in this Schedule 13G/A managed by TPG-Axon Management and held by the Funds.
- (vii) Dinakar Singh ("Mr. Singh"), an individual who serves as the managing member of Singh LLC, with respect to the Shares reported in this Schedule 13G/A managed by TPG-Axon Management and held by the Funds.

CUSIP NO. 125269100 13G/A Page 10 of 15 Pages

(b) ADDRESS OF PRINCIPAL OFFICE:

(All, except TPG-Axon TPG-Axon Offshore Offshore)

888 Seventh Avenue c/o Goldman Sachs (Cayman) Trust Limited PO Box 896GT, Harbour Centre, 2nd Floor 38th Floor New York, New York 10019 George Town, Grand Cayman Cayman Islands, BWI

- Citizenship: Delaware (all except TPG-Axon Offshore and Mr. Singh); (C) TPG-Axon Offshore: Cayman Islands; Mr. Singh is a United States citizen.
- Title of Class of Securities: Common Stock, par value \$0.01 per (d) share (the "Shares")
- CUSIP Number: 125269100
- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO SS.SS.240.13D-1(B) OR 240.13D-2(B) OR (C), CHECK WHETHER THE PERSON FILING IS A:
 - (a) $|_|$ Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
 - (b) |_| Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
 - (c) |_| Insurance company as defined in section 3(a)(19) of the Act

(15 U.S.C. 78c).

- (d) |_| Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) |_| An investment adviser in accordance with ss.240.13d-1 (b) (1) (ii) (E).
- (f) |_| An employee benefit plan or endowment fund in accordance with ss.240.13d-1 (b) (1) (ii) (F).
- (g) |_| A parent holding company or control person in accordance with ss.240.13d-1 (b) (1) (ii) (G).
- (h) $|_|$ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
- (i) |_| A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).
- (j) $|_|$ Group, in accordance with ss.240.13d-1(b)(1)(ii)(J).

IF THIS STATEMENT IS FILED PURSUANT TO Rule 13d-1(c), CHECK THIS BOX [X]

CUSIP NO. 125269100 13G/A

Page 11 of 15 Pages

ITEM 4. OWNERSHIP

TPG-Axon Management, as investment manager to TPG-Axon Domestic and TPG-Axon Offshore, has the power to direct the disposition and voting of the Shares held by TPG-Axon Domestic and TPG-Axon Offshore. PartnersGP is the general partner of TPG-Axon Domestic. GPLLC is the general partner of PartnersGP and TPG-Axon Management. Singh LLC is a Managing Member of GPLLC. Mr. Singh, an individual, is the Managing Member of Singh LLC and in such capacity may be deemed to control Singh LLC, GPLLC and TPG-Axon Management, and therefore may be deemed the beneficial owner of the securities held by TPG-Axon Domestic and TPG-Axon Offshore.

Each of Singh LLC, GPLLC, PartnersGP and Mr. Singh disclaim beneficial ownership of all of the shares of Common Stock and options to purchase shares of Common Stock reported in this 13G/A.

A. TPG-Axon Management

- (a) Amount beneficially owned: 1,150,000 shares of Common Stock
- (b) Percent of class: 2.37%* (*All percentages of beneficial ownership reported in this Schedule 13G/A are based on the 48,558,610 outstanding shares of Common Stock, as reported in the Issuer's Form 10Q for the period ending September 30, 2009.)
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: $^{\circ}$
 - (ii) Shared power to vote or to direct the vote: 1,150,000 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of:

0

(iv) Shared power to dispose or to direct the disposition of: 1,150,000 shares of Common Stock

B. PartnersGP

- (a) Amount beneficially owned: 371,984 shares of Common Stock
- (b) Percent of class: 0.77%*
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 371,984 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\ensuremath{\text{0}}$
 - (iv) Shared power to dispose or to direct the disposition of: 371,984 shares of Common Stock

CUSIP NO. 125269100

13G/A

Page 12 of 15 Pages

C. GPLLC

- (a) Amount beneficially owned: 1,150,000 shares of Common Stock
- (b) Percent of class: 2.37%*
- c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 1,150,000 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\begin{tabular}{ll} \begin{tabular}{ll} \be$
 - (iv) Shared power to dispose or to direct the disposition of: 1,150,000 shares of Common Stock

D. TPG-Axon Domestic

- (a) Amount beneficially owned: 371,984 shares of Common Stock
- (b) Percent of class: 0.77%*
- c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: $\boldsymbol{0}$
 - (ii) Shared power to vote or to direct the vote: 371,984 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\ensuremath{\mathtt{0}}$
 - (iv) Shared power to dispose or to direct the disposition of: 371,984 shares of Common Stock

E. TPG-Axon Offshore

- (a) Amount beneficially owned: 778,016 shares of Common Stock
- (b) Percent of class: 1.60%*
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: $^{\circ}$
 - (ii) Shared power to vote or to direct the vote: 778,016 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\begin{tabular}{ll} \begin{tabular}{ll} \b$
 - (iv) Shared power to dispose or to direct the disposition of:

778,016 shares of Common Stock

- F. Singh LLC
 - (a) Amount beneficially owned: 1,150,000 shares of Common Stock
 - (b) Percent of class: 2.37%*
 - (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote:
 0
 - (ii) Shared power to vote or to direct the vote: 1,150,000 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\ensuremath{\mathtt{0}}$
 - (iv) Shared power to dispose or to direct the disposition of: 1,150,000 shares of Common Stock

CUSIP NO. 125269100

13G/A

Page 13 of 15 Pages

Mr. Singh

G.

- (a) Amount beneficially owned: 1,150,000 shares of Common Stock Percent of class: 2.37%*
- (b) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote:
 - (ii) Shared power to vote or to direct the vote: 1,150,000 shares of Common Stock
 - (iii) Sole power to dispose or to direct the disposition of: $\ensuremath{\mathtt{0}}$
 - (iv) Shared power to dispose or to direct the disposition of: 1,150,000 shares of Common Stock

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS. If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following [X].

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

See Item 4.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON.

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Not applicable

ITEM 9. NOTICE OF DISSOLUTION OF THE GROUP

Not applicable

-----_____ 13G/A CUSIP NO. 125269100

Page 14 of 15 Pages

ITEM 10. CERTIFICATION

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 16, 2010

TPG-Axon Capital Management, LP By: TPG-Axon GP, LLC, general partner

By: /s/ Dinakar Singh Dinakar Singh President

TPG-Axon Partners GP, LP By: TPG-Axon GP, LLC, general partner

By: /s/ Dinakar Singh Dinakar Singh President

TPG-Axon GP, LLC

By: /s/ Dinakar Singh _____ Dinakar Singh President

TPG-Axon Partners, LP

By: TPG-Axon Partners GP, LP, general partner

By: TPG-Axon GP, LLC, general partner

By: /s/ Dinakar Singh

Dinakar Singh President

TPG-Axon Partners (Offshore), Ltd.

By: /s/ Dinakar Singh

Dinakar Singh Director

Dinakar Singh LLC

By: /s/ Dinakar Singh

Dinakar Singh Managing Member

/s/ Dinakar Singh

Dinakar Singh