FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, D.C. 20049

OMB APPROVAL

OMB Number: 3235-028
Estimated average burden

0.5

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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or Se	ction 3	30(n) of the I	nvestme	nt Cor	npany Act	01 1	.940					
1. Name and Address of Reporting Person* FELDMAN SHEILA B						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
														Direc X Offic	ctor er (give title	10% C Other	Owner (specify
(Last) (First) (Middle) ONECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 04/22/2010								VP - Human Resources)``
(Street) ST. LOUIS MO 63141					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(St	ate) (Zip)											Pers	son		
		Tabl	e I - No	n-Deriv	ative S	Secui	rities Acc	quired,	Dis	posed o	of, c	or Ben	efici	ally Own	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					h/Day/Year)		Deemed cution Date, y nth/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			nd 5) Secur Benef Owne	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		(A) or (D)	Price		ted action(s) 3 and 4)		(Instr. 4)
Common Stock 04/22/2					/2010			S		732		D	\$27.	7.593 4,068		D	
		Та					ies Acqu varrants,										
1. Title of Derivative Security (Instr. 3)	2. Conversion Onte (Month/Day/Year) Price of Derivative Security 33. Transaction Date (Execution Date, if any (Month/Day/Year)		n Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date E Expiratio (Month/I	on Dat			ı	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Date Exercisable

Explanation of Responses:

Remarks:

/s/ Jon S. Ploetz, Attorney-in-

Amount or Number

of Shares

Fact

Title

Expiration

Date

on S. Ploetz, Attorney-in-<u>04/23/2010</u>

** Signature of Reporting Person Date

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

- * 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).

Code

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

(A) (D)