## FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	D.C.	20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	OVAL							
	OMB Number: 3235-028								
l	Estimated average burd	en							
l	hours per response:	0.5							

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* FELDMAN SHEILA B						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]											all appli Directo	cable) r	ng Per	10% Ov	vner
(Last)	(Fi	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/04/2011										X	Officer (give title Other (specify below)  VP - Human Resources				вреспу
(Street)	JIS M	0	63141		-   4. If	f Ame	endmei	nt, Date	of (	Original F	=iled	(Month/Da	ay/Yea	ar)		Indiv ne) X	Form f	iled by One	e Rep	g (Check Ap orting Perso n One Repo	n
(City)	(Si		(Zip)														Persor				
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D				saction	Execution Date,			e,	3. 4. Secu Transaction Dispose Code (Instr. 5)			of, or Benefici rrities Acquired (A) or ed Of (D) (Instr. 3, 4 a			5. Amount of		nt of es ally following	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(msu. 4)			
Common Stock 03					<b>4/201</b> 1	2011			M		3,000	0	A	\$8.7	88.72		,668		D		
Common	Stock			03/0	<b>4/201</b> 1	1				S		3,000	0	D	\$30	\$36 8,668 D					
		7	able II -									sed of				y O	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		ansaction ode (Instr.		n of E		6. Date Exercisabl Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		j Security	D	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	e (	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Da Ex	nte Gercisable		xpiration ate	Title		Amount or Number of Shares						
Employee Stock Options (right to buy)	\$8.72	03/04/2011			M			3,000		(1)	02	2/03/2013	Comi		3,000		\$0.00	9,334		D	

## **Explanation of Responses:**

1. The reporting person received 60,000 stock options on February 3, 2003. The stock options vested ratably over a three-year period as follows: 20,000 stock options vested on February 3, 2004; 20,000 stock options vested on February 3, 2005; 20,000 stock options vested on February 3, 2006.

## Remarks:

/s/ Jon S. Ploetz, Attorney-in-03/08/2011

<u>Fact</u>

\*\* Signature of Reporting Person

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).

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.