FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

ONB APPROVAL								
OMB Number:	3235-028							
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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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 ]									lationship o ck all applic Directo	able) r	g Pers	/ner		
(Last) ONECIT	(F YPLACE I	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/24/2011								X	Officer (give title below)  VP - Hum		Other (s below) nan Resources		pecify
(Street) ST. LOU (City)			63141 (Zip)		4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - Nor	n-Deri	vativ	e Se	curities	s Acc	quired, C	Disp	osed o	f, or Be	nefic	ially	Owned				
1. Title of Security (Instr. 3)  2. Transc Date (Month/E					action 2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)			ities Acquired (A) or d Of (D) (Instr. 3, 4 and			5. Amour Securitie Beneficia Owned F Reported	s illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D) Pri		се	Transaction(s) (Instr. 3 and 4)				(541 4)
Common Stock 02/24/				24/201	/2011		A		4,600 A		\$	0.00	8,0	8,668		D			
		-	Table II -						ired, Di						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution I if any (Month/Day	Date,	Code (Ins				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)
					Code	v	(A)		Date Exercisable		Expiration Date	Title	Amo or Num of Shar	ber					
Employee Stock Options	\$32.49	02/24/2011			A		29,100		(1)	0:	2/24/2021	Common Stock	29,1	.00	\$0.00	29,100	0	D	

## **Explanation of Responses:**

1. The options vest ratably over 3 years as follows: 9,700 shares vest on February 24, 2012; 9,700 shares vest on February 24, 2013; and 9,700 shares vest on February 24, 2014.

## Remarks:

/s/ Jon S. Ploetz, Attorney-in-Fact 02/28/2011

\*\* 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).

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.