Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: Estimated average burden 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]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
(Last) (First) (Middle) ONECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/21/2008								X	below)	(give title P - Huma	an Re	below)	specify	
(Street) ST. LOU (City)	ST. LOUIS MO 63141				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Da			Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			and Securitie Benefici		es Form ally (D) of Following (I) (II		n: Direct r Indirect estr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D) Pri		ce	Transact (Instr. 3 a	action(s)			(111341. 4)	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	3A. Deemed Execution E if any (Month/Day	Date,	Code (In		5. Numb of Derivati Securiti Acquire (A) or Dispose of (D) (II 3, 4 and	es ed ed nstr.	5. Date Exercisable ar Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)			B. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s Illy	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amor or Numl of Share	oer						
Employee Stock Options (right to	\$52.69	02/21/2008			A		31,000		(1)	0	2/21/2018	Common Stock	31,0	00	\$0.00	31,000	0	D		

Explanation of Responses:

1. The option vests in three equal annual installments beginning on February 21, 2009.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

02/25/2008

** 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.