FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

) ;	Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).					
Name and Address of Departing Pare						

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]											k all appli Directo	or		10% Ov	vner
(Last)	ast) (First) (Middle) NECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 06/06/2008											(give title P - Huma	an Re	Other (s below) SOURCES	вреспу
(Street) ST. LOUIS MO 63141					- 4. If	f Ame	endmei	nt, Date	of C	Original F	=iled	(Month/Da		ine)	X Form filed by One Reporting Person						
(City)	(Si	tate)	(Zip)		-												Form filed by More than One Reporting Person				
		Tab	le I - Noı	n-Deriv	vative	Se	curit	ies Ad	qu	uired, I	Disp	osed c	of, o	r Be	nefici	ally	Owned	ı			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						ar)	2A. Deemed Execution Date, if any (Month/Day/Year)		·	3. Transaction Code (Instr.		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Securiti Benefic Owned		es ally Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount		(A) or (D)	Price	e	Reported Transact (Instr. 3	tion(s)			(Instr. 4)
Common Stock 06/06/.						2008				M		3,000	0	A	\$8	.72	2 7,068			D	
Common Stock 06/06/						2008				S		3,000		D	\$	73	4,	068		D	
		7	able II -									sed of onverti					Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemo Execution if any (Month/Da	Date,	4. Transactior Code (Instr. 8)				Ex	Date Exe piration l onth/Day	Date	Amoun Securit Underly Derivat		ount of urities		S (1	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Ownership	Beneficial Ownership (Instr. 4)
					Code	ode V		(D)	Da Ex	ate ercisable		piration te	Title		Amour or Number of Shares	er					
Employee Stock Options (right to buy)	\$8.72	06/06/2008			M			3,000		(1)	02	2/03/2013	Com Sto	imon ock	3,000	0	\$0.00	12,33	4	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/ Gregory A. Billhartz, 06/09/2008 Attorney-in-Fact

** 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.