SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPRO	IVAL
OMB Number:	3235-0287
Estimated average burde	en
hours per response:	0.5

1. Name and Addre	1 0	erson*	2. Issuer Name and Ticker or Trading Symbol <u>ARCH COAL INC</u> [ACI]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
FELDMAN	<u>SHEILA B</u>			Director 10% Owner Officer (give title Other (specify					
(Last) (First) (Middle) ONECITYPLACE DRIVE		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/11/2008	VP - Human Resources					
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
ST. LOUIS	MO	63141		X Form filed by One Reporting Person					
(City)	(State)	(Zip)		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. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common stock ⁽¹⁾	02/11/2008		М		3,000	A	\$8.72	9,293	D	
Common stock ⁽¹⁾	02/11/2008		S		3,000	D	\$54	6,293	D	

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 Date, if any (Month/Day/Year)	4. Transa Code (8)		of		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 of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee stock options (right to buy) ⁽¹⁾	\$8.72	02/11/2008		М			3,000	(2)	02/03/2013	Common stock	3,000	\$0.00	19,334	D	

Explanation of Responses:

1. The exercise of employee stock options and sale of underlying shares of common stock by the executive officer reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan.

2. 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; and 20,000 stock options vested on February 3, 2006.

Remarks:

<u>/s/ Gregory A. Billhartz</u>

Attorney-in-fact

02/12/2008

** 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.