FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL										
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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).

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						Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI] 3. Date of Earliest Transaction (Month/Day/Year)									neck all app Direc	ctor er (give title		son(s) to Iss 10% O Other (below)	wner	
(Last) (First) (Middle) ONECITYPLACE DRIVE						01/14/2007									VP - Human Resources					
(Street) ST. LOU	TIS M	0 (63141		- 4. If -	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Lir	ie) X Form Form	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate)	(Zip)			Feisur														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Trans Date (Month)						ction 2A. Deemed Execution Date, if any (Month/Day/Year)			Cod	Transaction Disposed Of (D) (Instr. 3, Code (Instr. 5)			Benefic	ies For cially (D) Following (I) (n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Cod	e v	Amou	nt	t (A) or (D)		Transa	ansaction(s) str. 3 and 4)			(
Common Stock 01/14						007 A 875 A (1)		2	2,517		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 Dat if any (Month/Day/Ye	Date,	4. Transactio Code (Inst				6. Date Exercisable Expiration Date (Month/Day/Year)			d 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Indi (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Co	Code	v	(A)	(D)	Date Exercisa		Expiration Date	n Title		Amount or Number of Shares						
Restricted Stock Units	(2)	01/14/2007			M			875	(3)		(4)	Com		875	(1)	3,503		D		

Explanation of Responses:

- 1. The reporting person received 5,254 restricted stock units on January 14, 2004. The restricted stock units vest ratably over a three-year period. Upon vesting of 1,750 restricted stock units on January 14, 2007, the reporting person received 875 shares of common stock pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 2. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 3. The reporting person received 5,254 restricted stock units on January 14, 2004. The restricted stock units vest ratably over a three-year period. On January 14, 2007, 1,750 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

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

01/17/2007

** 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.