FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
l	OMB Number:	3235-0287
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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*							2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										k all appl Direct	icable) or	g Person(s) to Iss		vner		
(Last)	ast) (First) (Middle) NECITYPLACE DRIVE							est Trar	nsac	tion (Mo	nth/E	Day/Year)		X	below	,	Other (spelow) ent - Bus Dev		specify				
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)							4. If Amendment, Date of Original Filed (Month/Day/Year)											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-Deriv	ative	Sec	curiti	es Ac	cqu	iired, I	Disp	osed	of, o	r Ber	efici	ally	Owne	d					
1. Title of Security (Instr. 3) 2. Trans Date (Month/I						ar) E	2A. Deemed Execution Date, if any (Month/Day/Year			3. Transac Code (I 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				4 and Securit Benefic Owned		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
							Code	v	Amoun	t	(A) or (D)	Pric	e	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)					
Common	Stock	3/2009	2009				M		383	383		(1)	34	34,603		D						
Common Stock																	2,358			I	By 401(k) Plan		
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. Deeme Execution if any (Month/Day	Date,	4. Transactior Code (Instr. 8)				6. Date Exercisal Expiration Date (Month/Day/Year)				Amo Secu Unde Deriv	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (In	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y Ow For Dir or	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Dat Exe	te ercisable		piration ite	Title	1	Amoun or Numbe of Shares	r							
Restricted Stock	(2)	02/23/2009			M			383		(3)		(4)	Com		383		(1)	1,150		D			

Explanation of Responses:

- 1. The reporting person received 2,300 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. Upon vesting of 766 restricted stock units on February 23, 2009, the reporting person received 383 shares of common stock and deferred receipt of 383 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 2,300 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. On February 23, 2009, 766 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

/s/ Gregory A. Billhartz, 02/25/2009 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.