FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-028								
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	Check this box if no longer subject to
١	Section 16. Form 4 or Form 5
ı	obligations may continue. See
	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

1. Name and Address of Reporting Person* <u>EAVES JOHN W</u>					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]							(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/19/2009							<u> </u>	X Officer (give title Other (specify below) President & COO				
(Street) ST. LOU (City)			63141 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line)) Form fil Form fil	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
(=:9)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				ransactio	2A. Deemed Execution Date,		3. Trans Code	actior	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)		ed (A) or str. 3, 4 and 5	5. Amoun Securities Beneficia Owned Fo Reported Transacti	s lly ollowing (on(s)	6. Owne Form: D (D) or In (I) (Instr.	oirect Ir direct B . 4) C	. Nature of ndirect eneficial ownership nstr. 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 Date, if any (Month/Day/Year)	Code (Instr				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	y O Fo O (I)	0. Ownership form: Pirect (D) r Indirect) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	ii(ə)		
Employee Stock Options	\$14.05	02/19/2009		A		130,350		(1)		02/19/2019	Common Stock	130,350	\$0.00	130,350)	D	

Explanation of Responses:

1. The options vest ratably over 4 years as follows: 32,588 shares vest on February 19, 2010; 32,588 shares vest on February 19, 2011; 32,587 shares vest on February 19, 2012; 32,587 shares vest on February 19, 2013.

Remarks:

<u>/s/ Gregory A. Billhartz,</u> <u>Attorney-in-Fact</u>

02/23/2009

** 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.