FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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CTATEMENIT	OF CHANCES	IN BENEFICIAL	CWAIEDCHID
SIAIEMENI	OF CHANGES	IN DENEFICIAL	OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-028									
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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

					UI Jec	11011 30(11)	or tire	invesiment C	onipany Act	01 1340							
1. Name and Address of Reporting Person* EAVES JOHN W				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC ACI							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
EAVES	JUHN V	<u>v</u>		-)	Director			10% Ow	ner	
(Last)	(F	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year)										Other (spelow)	pecify	
ONE CITYPLACE DRIVE				02/23/2012							President & COO						
(Street)				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
ST. LOU	IIS M	O	63141								X Form filed by One Reporting Person						
(City)	(S	state)	(Zip)	_								Form fil Person		than (One Report	ing	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
Date				2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.						Form:	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
							Code V	Amount	(A) or (D)	Price	Transacti (Instr. 3 a	ion(s)			(Instr. 4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																
			(e.ç	j., puts	s, cal	ls, warr	ants	, options,	converti	ble secu	ırities)						
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	ransaction Derivative Expira ode (Instr. Securities (Mont)		Expiration Da	Date Exercisable and oiration Date onth/Day/Year) 7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4)		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	(5)			
Employee Stock Options	\$13.93	02/23/2012		A		134,650		(1)	02/23/2022	Common Stock	134,650	\$0.00	134,650	0	D		
Restricted Stock Units	\$13.93	02/23/2012		A		53,300		(2)	(3)	Common Stock	53,300	\$0.00	53,300		D		

Explanation of Responses:

- 1. The options vest ratably over 3 years as follows: 44,884 shares vest on February 23, 2013; 44,883 shares vest on February 23, 2014; and 44,883 shares vest on February 23, 2015.
- $2. \ On \ February \ 23, 2012, the \ reporting \ person \ received \ 53, 300 \ restricted \ stock \ units. All \ of \ these \ restricted \ stock \ units \ vest \ on \ February \ 23, 2015.$
- 3. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-

02/27/2012

<u>Fact</u>

** 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.