FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

<b>STATEMENT</b>	OF CHANGES	IN BENEFICIAL	<b>OWNERSHIP</b>
O 17 (1 E.W.E. (1 )	0. 0.0.110_0		O IIII III

3235-0287				
0.5				

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* <u>EAVES JOHN W</u>				2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]								Relationship of Reporting Person(s) to Issuer (Check all applicable)						
												X Directo	or		10% Ov	/ner		
(Last)	(Fi	rst)	(Middle)			Date of Earliest Transaction (Month/Day/Year)							X Officer below)	(give title		Other (specify below)		
ONE CITYPLACE DRIVE				02/	02/22/2007								President & COO					
(Street)					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
ST. LOU	IS M	О	63141			X							,	Form filed by One Reporting Person				
(City)	(S	tate)	(Zip)		=	Form filed by More than One Reporting Person								rting				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)				Execution Date,		Code (Ins	on	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
							Code V	,	Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			(Instr. 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)	perivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any		Date,		Fransaction of Code (Instr. Derivative		ve es d ed nstr.	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	Ex <sub> </sub>	piration te	Title	Amount or Number of Shares					
Employee Stock Option (right to buy)	\$32.99	02/22/2007			A		86,200		(1)	02/	/21/2017	Common Stock	86,200	\$0.00	86,20	0	D	

## **Explanation of Responses:**

1. The option vests in three equal annual installments beginning on February 22, 2008.

## Remarks:

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

02/27/2007

\*\* Signature of Reporting Person

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.