П

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	,
Section 16. Form 4 or Form 5	
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

	OVAL
OMB Number:	3235-0287
Estimated average bu	rden
hours per response.	0.5

1. Name and Add EAVES JOI	ress of Reporting I	Person [*]	2. Issuer Name and Ticker or Trading Symbol <u>ARCH COAL INC</u> [ACI]	(Checl	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle)			3. Date of Earliest Transaction (Month/Day/Year)		Director Officer (give title below)	10% Owner Other (specify below)				
ONE CITYPLACE DRIVE			02/21/2008		President & COO					
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line)	vidual or Joint/Group Filir	ng (Check Applicable				
ST. LOUIS	MO	63141		X	Form filed by One Rep	0				
(City)	(State)	(Zip)	—		Form filed by More that Person	an One Reporting				
		Table I - Non-Dei	ivative Securities Acquired, Disposed of, or Bene	ficially	Owned					

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities / Disposed Of (5)			Securities Form: Dire Beneficially (D) or Indir	(D) or Indirect	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price			(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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Numl of Derivati Securiti Acquire (A) or Dispose of (D) (I 3, 4 and	ed 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	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Options (right to buy)	\$52.69	02/21/2008		А		80,000		(1)	02/21/2018	Common Stock	80,000	\$0.00	80,000	D	
Employee Stock Options (right to buy)	\$52.69	02/21/2008		A		42,750		(2)	02/21/2018	Common Stock	42,750	\$0.00	42,750	D	
Restricted Stock Units	(3)	02/21/2008		A		21,700		(4)	(5)	Common Stock	21,700	(3)	21,700	D	

Explanation of Responses:

1. The option vests in three equal annual installments beginning on February 21, 2009.

2. The option vests in two equal installments as follows: 21,375 shares vest on February 21, 2011 and 21,375 shares vest on February 21, 2012.

3. 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.

4. The reporting person received 21,700 restricted stock units on February 21, 2008. The restricted stock units vest ratably over a two year period beginning on February 21, 2011.

5. The restricted stock units do not expire.

Remarks:



02/25/2008

** 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.