FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

wasnington,	D.C.	20549	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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 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]								elationship of ck all applica Director	able)	Person	10% Ow	ner	
(Last)	(F FYPLACE	irst) DRIVE	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/03/2005								below)	give title	VP & (Other (specify below) 7P & COO	
(Street) ST. LOU		(O tate)	63141 (Zip)			If Am	endment,	Date of	Original Filed (Month/Day/Year)					ndividual or Joint/Group Filing (Check Applicable b) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Та	ble I - No	n-Deri	ivati	ve S	ecuritie	es Acq	uired,	Dis	posed of,	or Ben	eficially	Owned				
1. Title of Security (Instr. 3) 2. Tran Date (Month			2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			(A) or 3, 4 and 5)	Beneficially Owned Following		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock 03/			03/0)3/20	/2005			М		16,469	A	\$45.01	16,4	469	Γ			
Common Stock 0			03/0	/03/2005				M		0	A	\$0.00	1,6	03)3 I		By 101(k) blan	
			Table II -								osed of, o convertibl			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	Date, Transa Code (e (Instr. Derivative Acquired Dispose		erivative ecurities cquired (A) or isposed of b) (Instr. 3, 4		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	e C s F lly C o (l	O. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transaction (Instr. 4)	un(s)		
Phantom Stock	(1)	03/03/2005			M			43,918	03/03/2	2005	01/02/2009	Common Stock	43,918	(1)	0		D	
Restricted Stock	(1)	03/03/2005			A		10,980		(2)		(3)	Common	10,980	(1)	10,98	0	D	

Explanation of Responses:

- 1 1-for-1
- 2. Restricted Stock Units are vested; Payment has been deferred until retirement.
- 3. None

Remarks:

/s/ Janet L. Horgan, Attorneyin-Fact

03/05/2005

** 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.