EAVES JOHN W Form 4 February 04, 2008

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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OMB APPROVAL

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SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

See Instruction

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)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(energial applicable)		
ONE CITYPLACE DRIVE			(Month/Day/Year) 01/31/2008	_X_ Director 10% Owner _X_ Officer (give title Other (specify below) President & COO		
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
ST. LOUIS, MO 63141			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reportin Person		
(City)	(State)	(Zip)	Tobla I - Non-Darivotiva Sacuritias A.	equired Disposed of or Repeticially Owner		

	(City)	(State)	Table	e I - Non-L	Derivative S	Securi	ities Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Tit Secu (Instr	rity	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securit on(A) or Dis (Instr. 3, 4)	sposed	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Con	nmon ek	01/31/2008		M	75,000	A	(<u>1</u>)	112,319	D	
	nmon ck <u>(2)</u>	02/01/2008		S	2,600	D	\$ 43.73	109,719	D	
	nmon ck <u>(2)</u>	02/01/2008		S	900	D	\$ 43.74	108,819	D	
	nmon ck <u>(2)</u>	02/01/2008		S	2,500	D	\$ 41.09	106,319	D	
	nmon ck <u>(2)</u>	02/01/2008		S	400	D	\$ 41.1	105,919	D	

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Common Stock (2)	02/01/2008	S	1,100	D	\$ 41.12	104,819	D	
Common Stock (2)	02/01/2008	S	3,500	D	\$ 42	101,319	D	
Common Stock (2)	02/01/2008	S	2,500	D	\$ 42.57	98,819	D	
Common Stock (2)	02/01/2008	S	1,900	D	\$ 42.65	96,919	D	
Common Stock (2)	02/01/2008	S	800	D	\$ 42.66	96,119	D	
Common Stock (2)	02/01/2008	S	500	D	\$ 42.67	95,619	D	
Common Stock (2)	02/01/2008	S	600	D	\$ 42.71	95,019	D	
Common Stock (2)	02/01/2008	S	200	D	\$ 42.72	94,819	D	
Common Stock (2)	02/01/2008	S	4,000	D	\$ 43.44	90,819	D	
Common Stock (2)	02/01/2008	S	4,000	D	\$ 43.78	86,819	D	
Common Stock (2)	02/01/2008	S	1,200	D	\$ 43.84	85,619	D	
Common Stock (2)	02/01/2008	S	800	D	\$ 43.86	84,819	D	
Common Stock (2)	02/01/2008	S	500	D	\$ 43.87	84,319	D	
Common Stock (2)	02/01/2008	S	200	D	\$ 43.88	84,119	D	
Common Stock (2)	02/01/2008	S	100	D	\$ 43.89	84,019	D	
Common Stock (2)	02/01/2008	S	4,600	D	\$ 43.9	79,419	D	
Common Stock (2)	02/01/2008	S	100	D	\$ 43.91	79,319	D	
Common Stock (2)	02/01/2008	S	5,000	D	\$ 40.69	74,319	D	
Common Stock						3,392	I	By 401(k) Plan

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. Transacti Code (Instr. 8)	or Disposed of (D) (Instr. 3, 4,	Expiration D (Month/Day/	6. Date Exercisable and Expiration Date Underlying Sec (Month/Day/Year) (Instr. 3 and 4)		Securities	8 II S (
				Code V	and 5) (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Stock Units	(3)	01/31/2008		M	75,000	<u>(4)</u>	(5)	Common Stock	75,000	

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
EAVES JOHN W ONE CITYPLACE DRIVE ST. LOUIS, MO 63141	X		President & COO				

Signatures

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

02/04/2008

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- The reporting person received 100,000 restricted stock units on December 18, 2002. The restricted stock units vested on January 31, 2008. Upon vesting of 100,000 restricted stock units on January 31, 2008, the reporting person received 75,000 shares of common stock and deferred receipt of 25,000 shares of common stock pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- The sale of shares of common stock by the reporting person reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan previously adopted by the reporting person.
- 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 100,000 restricted stock units on December 18, 2002. On January 31, 2008, 100,000 restricted stock units vested.
- (5) The restricted stock units do not expire.

Reporting Owners 3

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