ARCH COAL INC Form 4 February 11, 2008

FORM 4

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

OMB Number:

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

response... 0.5

OMB APPROVAL

Form 4 or Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

Section 16.

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

30(h) of the Investment Company Act of 1940

1(b).

(C:tr.)

(State)

(7:n)

(Print or Type Responses)

1. Name and Address of Reporting Person * BESTEN C HENRY JR	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			
ONE CITYPLACE DRIVE, SUITE 300	(Month/Day/Year) 02/07/2008	Director 10% Owner X Officer (give title Other (specify below) Senior VP-Strategic Dev.		
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
OT LOVIG MO (2141	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
ST. LOUIS, MO 63141				

(City)	(State) (A	Table	I - Non-De	erivative S	Securi	ties Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security	2. Transaction Date (Month/Day/Year)		3. Transactio	4. Securi n(A) or Di		•	5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect
(Instr. 3)		any (Month/Day/Year)	Code (Instr. 8)	(D) (Instr. 3,	4 and	5)	Beneficially Owned	(D) or Indirect (I)	Beneficial Ownership
			Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common stock (1)	02/07/2008		M	4,700	A	<u>(1)</u>	30,475	D	
Common stock (2)	02/08/2008		S	2,000	D	\$ 49.9	28,475	D	

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. Transactic Code (Instr. 8)	5. Number proof Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exerc Expiration D (Month/Day/	ate	7. Title Underly (Instr. 3
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title
Performance-contingent phantom stock	(3)	02/07/2008		M	9,400	<u>(4)</u>	12/31/2008	Comm

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BESTEN C HENRY JR ONE CITYPLACE DRIVE SUITE 300 ST. LOUIS, MO 63141

Senior VP-Strategic Dev.

Signatures

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

02/11/2008

**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 18,800 performance-contingent phantom shares on July 28, 2005. One-half of the performance contingent phantom shares vest if the average closing price of Arch Coal, Inc.'s common stock for a period of 20 consecutive trading days meets or exceeds \$40.00, subject to the achievement of certain financial performance targets. Upon vesting of 9,400 performance-contingent phantom shares on February 7, 2008, the reporting person received 4,700 shares of common stock and \$230,817 in cash.
- (2) The sale of shares of common stock by the executive officer reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan.
- (3) Each performance-contingent phantom share represents a right to receive one share of common or the cash value thereof, unless otherwise deferred at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
 - The reporting person received 18,800 performance-contingent phantom shares on July 28, 2005. One-half of the performance-contingent phantom shares vest if the average closing price of Arch Coal's common stock for a period of 20 consecutive trading days meets or
- (4) exceeds \$35.00 and the other half of the performance shares vest if the average closing price of Arch Coal's common stock for a period of 20 consecutive trading days meets or exceeds \$40.00, subject, in each case to the achievement of certain financial performance targets. On February 7, 2008, 9,400 performance-contingent phantom shares vested.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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