FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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* POTTER ROBERT G				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								(Che	eck all appl	•				
(Last) (First) (Middle) ONECITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 03/15/2007									Office below	r (give title		Owner er (specify w)	
(Street) ST. LOU (City)			53141 (Zip)		4. If	f Amei	ndment	t, Date	of Origina	l Filed	(Month/E	Day/Year)		Line) <mark>X</mark> Form	Joint/Group filed by One filed by More n	Reporting Pe	rson
	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	Transaction Disposed Of (D) (Instr. 3, 4			4 and Securit Benefic Owned		es ially Following	6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership				
							Code	v	Amount	(A) or (D)		rice	Reporte Transac (Instr. 3	tion(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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Yea	Date,	4. Transactio Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amo or Num of Shar	ber				
Phantom	(1)	03/15/2007			A		71		(2)		(2)	Common	7	1	\$30.2	34,950	D	

Explanation of Responses:

- 1. Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan"). The shares of phantom stock acquired by the director represent dividends attributable to amounts that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.
- 2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer certain portions of the phantom stock account into an alternative investment account at any time.

Remarks:

Stock

/s/ Gregory A. Billhartz, 03/19/2007 Attorney-in-Fact

** 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.

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