FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANGES IN	BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* POTTER ROBERT G						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									ck all appl	,	g Perso	on(s) to Iss	
(Last) (First) (Middle) ONECITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/15/2007									_	r (give title)		Other (s below)	specify		
(Street) ST. LOU (City)			53141 Zip)		4. If	f Amei	ndment	t, Date	of Original	Filed	(Month/E	Oay/Year)		Line) 【 Form	Joint/Group filed by One filed by Mor n	Repor	ting Perso	n
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 (I	Transaction Disposed Of (D) (Instr. 3, Code (Instr. 5)				5. Amou Securiti Benefic Owned Reporte	es ially Following	Form:	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	(A) or (D)		rice	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. Deeme Execution if any (Month/Day	Date, Transacti Code (Ins			n of E		Expiration	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)			3. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	/ O F- D o (!)	0. Dwnership orm: Direct (D) r Indirect) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		epiration ate	Title	Amo or Num of Sha	ber					
Phantom Stock	(1)	06/15/2007			Α		66		(2)		(2)	Common Stock	6	6	\$39.07	36,830		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:

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

** Signature of Reporting Person Date

06/18/2007

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.