FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

wasnington,	D.C.	20549	

OMB APPROVAL									
OMB Number:	3235-028								
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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

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1. Name and Address of Reporting Person* POTTER ROBERT G				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
PULLE	K KUBE	KI G								,					X Direct	or		10% O	wner
(Last) (First) (Middle) ONECITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 03/16/2009										Office below	r (give title)		Other (below)	specify	
,					4. If	Amen	dment	t, Date	of Origina	l Filed	d (Month/E	Day/Year)		6. 1	ndividual or	Joint/Group	Filing	g (Check Ap	plicable
(Street) ST. LOU	IIS M	0	63141						-					Lin	X Form	filed by One	•	•	
(City)	(S	tate)	(Zip)												Perso		c trial	п опе кере	nung
		Tab	le I - Non-	Deriva	tive	Sec	uritie	es A	cquired	Dis	posed	of, or E	Bene	ficial	ly Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			Execution Date			e, Transaction Dispose Code (Instr. 5)			rities Acquired (A) ed Of (D) (Instr. 3, 4			Benefic Owned	ies ially Following	Form (D) o	i. Ownership Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amoun	(A) or (D)		Price		action(s) 3 and 4)			(Instr. 4)
		Т	able II - De (e						uired, I s, optio						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 Date, if any (Month/Day/Year)	ate, Ti	4. Transactio Code (Inst 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		urity	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
				c	ode	v	(A)	(D)	Date Exercisal		xpiration ate	Title	or Nui of	ount nber ares					
Phantom	(1)	03/16/2009			A		285		(2)	\top	(2)	Common	1 2	85	\$13.71	43,729		D	Ì

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 amounts held in 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

03/18/2009

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.