FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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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
J	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*					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) ONECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 09/30/2008									Officer below)	(give title		Other (s below)	specify
(Street) ST. LOU			53141		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi ₋ine) X	,				
(City)	(S)	-	(Zip)		<u>.</u>														
			le I - Nor	1		_			-	Dis									
1. Title of Security (Instr. 3) 2. Transa Date (Month/D.						Execution Date,			Code (Instr. 5)				4 and Securiti Benefic		es For ially (D) Following (I) (: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	(A) or (D) Price		Transac	nsaction(s) str. 3 and 4)			(111511.4)
	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,	l. Transaction Code (Instr.		of		6. Date Exercisable Expiration Date (Month/Day/Year)		Amount of		of s ig e Securi	D S (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisable		xpiration ate	Title	Amou or Numb of Share	er					
Phantom Stock	(1)	09/30/2008			A		1,368		(2)		(2)	Common Stock	1,36	8	\$32.89	73,885		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") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.
- 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

10/02/2008

** 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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