FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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*				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
<u>HUNT DOUGLAS H</u>						THIST COTTE IT TO)	Oirect	Director		10% O	wner	
(Last) (First) (Middle) ONECITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 09/30/2008									Office below	r (give title)		Other (below)	specify			
					4 If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street) ST. LOUIS MO 63141				4. II Amendinent, Date of Original Filed (Month/Day/Year)							Line									
(City)	(S:	tate)	(Zip)												Perso	,	c trictri	One repe	inung	
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		Tab	le I - Non	-Deriva	ative	Sec	curitie	es Ao	cquired,	Dis	posed	of, or B	enefi	ciall	y Owne	d				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Da			ecution Date,		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)		4 and Securit		es ially Following	Form:	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code V Amoun		(A) (D)	or P	rice	Transac	ted action(s) 3 and 4)			(instr. 4)			
		Т	able II - D (e						juired, C s, optior			,		•	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)	Date, T	4. Transaction Code (Instr. 8)		5. Number n of		6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	, C	LO. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				c	ode	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amo or Num of Shar	ber						
Phantom Stock	(1)	09/30/2008			A		684		(2)		(2)	Common Stock	68	4	\$32.89	43,468		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.

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.