FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
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Instruction 1(h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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)								
LOCKHART THOMAS A				1					- 1) >	Oirect	or		10% O	wner		
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 06/15/2009								-	Office below	r (give title)		Other (below)	specify	
ONE CI.	I I FLACE	DKIVE			_									-						
(Street)					. 4. If	If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
ST. LOU	TIS M	0	63141									2	Form	Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(Si	tate) ((Zip)												Perso	on				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,		Transaction Dispose Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3, 4				ies For cially (D) Following (I) (vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	ınt (A) or (D)		rice		action(s) 3 and 4)			(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/Ye	Date,	4. Transactic Code (Inst 8)				6. Date Exercisalt Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct or Indi (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		piration ite	Title	Amo or Num of Sha	ber						
Phantom Stock	(1)	06/15/2009			A		80		(2)		(2)	Common Stock	8	0	\$17.32	15,408		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 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

06/17/2009

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.