FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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* LOCKHART THOMAS A					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
LUCK	11/1/11/11/11	IUMAS A								_	-					X Dire	ctor		10% O	wner
(Last)	(Fi	rst) ((Middle)			3. Date of Earliest Transaction (Month/Day/Year) 09/14/2007								Offic belo	er (give title w)		Other (below)	specify		
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					4 11	f Amei	ndment	t Date	of O	riginal E	iled	(Month/C	av/Year)		6	ndividual	or Joint/Grou	n Filin	ın (Check Ar	nlicable
(Street)					"		i i di i i Ci i i	i, Dale	. 51 01	nginai i	cu	(141011111/12	rayi icai)		Lin		,, 501111 G10u	P 1 11111	ig (Oncor A)	phoubic
ST. LOU	IS M	0	63141													X For	n filed by On	e Rep	orting Perso	on
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(City)	(S	tate) ((Zip)																	
		Tah	le I - Non	-Deriv	ative	Sec	uritie	es Ar	cani	ired. D)isr	osed (of. or B	ene	ficia	llv Own	ed ed			
									<u> </u>		-101							T		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date		e, Transaction Dispos Code (Instr. 5)		Dispose	ırities Acquired (A) ed Of (D) (Instr. 3, 4			d Secur Benef		Forr (D)	Ownership rm: Direct or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									` ` 		_	(A) or			Repo	ted action(s)	```	`	(Instr. 4)	
						Code V Amount (A) 01 I				Price		3 and 4)								
		т.	able II - D	erivat	ive S	Secu	rities	Acn	uire	ed. Dis	รอด	sed of	. or Be	nefi	ciall	Owner	1			
		•											ble sec			20	-			
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)		4. Transaction Code (Instr. 8)				Expi	6. Date Exercisabl Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4))	8. Price o Derivative Security (Instr. 5)		ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date	e rcisable	Ex	piration	Title	or Nu of	ımber					
70					-540	_	(/-)	(5)		. J.Jubic	1-		<u> </u>	+						
Phantom Stock	(1)	09/14/2007			Α		24			(2)		(2)	Common		24	\$32.86	11,355	5	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

09/17/2007

** 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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