FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APP	ROVAL
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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

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]									elationship ck all appl	,	g Pers	son(s) to Iss	
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 03/16/2009									Office below	r (give title)		Other (sbelow)	specify
(Street) ST. LOUIS MO 63141				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	tate) ((Zip)																
		Tab	le I - Non	-Deriv	ative	Sec	curitie	es Ao	cquired,	Dis	posed	of, or B	enefi	cially	y Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					ar) E	A. Deemed Execution Date, f any Month/Day/Year		Code	Transaction Disposed O Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3, 4		4 and Securit Benefic Owned		ies ially Following	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)		rice	Reporte Transac (Instr. 3	ction(s)			(Instr. 4)
		Т	able II - D						uired, D 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)		4. Transaction Code (Instr 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		E	B. Price of Derivative Gecurity Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amo or Num of Shar	ber					
Phantom Stock	(1)	03/16/2009			Α		93		(2)		(2)	Common	93	3	\$13.71	14,207		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

03/18/2009

lu or indirectlu

** Signature of Reporting Person Date

 $\label{lem:Remodel} \textbf{Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.}$

- * 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.