FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB API	PROVAL
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* 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)					
LOCKHARI INOMAS A											-				2	X Direct	or		10% O	wner
(Last)	.ast) (First) (Middle) DNE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/15/2011									Office below	r (give title		Other (s	specify		
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
ST. LOU	IIS M	0	63141												2	_	,		orting Person	
(City)	(St	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/Date)					Execution Date,			Cod	Transaction Disposed Of (D) (Instr. 3, 2) Code (Instr. 5)					ies Fo cially (D) Following (I)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
							Cod	e V	Am	ount	ount (A) or (D)		rice		nsaction(s) tr. 3 and 4)			(Instr. 4)		
		T	able II - I (or Ben ole secu			Owned				
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,	ate, Transac Code (I				6. Date Exercisal Expiration Date (Month/Day/Year		te	S	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expirati Date		Title	Amo or Num of Shar	ber					
Phantom Stock	(1)	06/15/2011			A		92		(2)		(2)	C	Common Stock	92	2	\$25.1	21,138		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/ Robert G. Jones, Attorney-

06/16/2011

in-Fact

** 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.