FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL

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Filed pursuant to Se	ction 16(a) of the	Securities Excha	nae Act of 193
		ant Company Ac	

Name and Address of Reporting Person* Jones J. Thomas			2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]						5. I (Cl	Relationship neck all appli X Directo		erson(s) to Is					
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/29/2012								Officer below)	r (give title)	Other (below)	specify		
SUITE 3	00				4. If Amendment, Date of Original Filed (Month/Day/Year)							. Individual or Joint/Group Filing (Check Applicable ine)					
(Street)	TS M	0	63141											,	filed by One Re	eporting Perso	on
51. LOU	15 M		03141										Form filed by More than One Reporting Person				
(City)	(S	tate) (Zip)														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			ate	Execution Date,			Code (Instr. 5)				Benefic	es Fo ially (D) Following (I)	m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code V Amount (A) or (D)					r Price	Transac (Instr. 3	tion(s)		11150.4)			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Derivative Conversion Date Execution or Exercise (Month/Day/Year) if any		3A. Deemed Execution Datif any (Month/Day/Ye	Co	Transaction Code (Instr.		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		nd	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beeficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Co	ode	v	(A)	(D)	Date Exercisable	Expirat Date	tion	Title	Amount or Number of Shares				
Phantom Stock	(1)	06/29/2012			A		5,261		(2)	(2)		Common Stock	5,261	\$6.89	17,323	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/ Jon S. Ploetz, Attorney-in-

Fact

** Signature of Reporting Person

07/02/2012 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.