FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

C. 20549

STATEMENT	OF (CHANGES	IN BENEFICIA	AL.	OWNERSHIP
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	OMB APPRO	OVAL
	OMB Number:	3235-0287
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1	hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 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

1. Name and Address of Reporting Person* <u>Jones J. Thomas</u>					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										k all appli Directo	cable) or	g Per	son(s) to Is	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 09/28/2012										Officer below)	(give title		Other (below)	specify
SUITE 300 (Street) ST. LOUIS MO 63141						4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					on
(City)	(Si		(Zip) le I - Non-I	Deriva	tive S	Secur	ities	Ac	guired, D)isp	osed o	of, or Be	enefic	ially					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					action 2A. Deemed Execution Date			3. Transact Code (In: 8)	4. Securities Acquired (A Disposed Of (D) (Instr. 3 5)			red (A) o str. 3, 4	A) or 5. Amo Securit Benefic Owned Report		unt of ties For (D) (I) (I ed		vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (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 Dat if any (Month/Day/Yo	Date, Transact				ve es ed	6. Date Exercisi Expiration Date (Month/Day/Yea		te Amount of Year) Securities Underlying		unt of urities erlying vative Security		Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Co	ode V	, (A	4)	(D)	Date Exercisable	Ex Da	piration ate	Am or Nu of Title		er					
Phantom Stock	(1)	09/28/2012		1	A	5,	,727		(2)		(2)	Common Stock	5,72	7	\$6.33	22,463		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

Date

10/01/2012

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.