FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	DC	205/19
wasiiiiiqtoii,	D.C.	20349

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	DVAL
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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).

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* HANRAHAN PAUL T				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								Relationship heck all app X Direct	icable)	Person(s) to Is			
ONE CITYPLACE DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 06/14/2013								Office below	r (give title)	Other (below)	specify			
SUITE 300				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) ST. LOU	TIS M	0	53141												filed by More	Reporting Person	
(City)	(Si	ate) (Zip)														
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			Execution Date		Code (Instr. 5)				Benefic	ies F ially (Following (5. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)					
					Code V Amount (A)				(A) (D)	Price	Transa (Instr. 3	ction(s)		(iiisti. 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/Ye	ate, Tr	Code (Instr				6. Date Exercisable and Expiration Date (Month/Day/Year)		and	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				c	ode	v	(A)	(D)	Date Exercisable	Expira Date	ation	Title	Amount or Number of Shares				
Phantom Stock	(1)	06/14/2013			A		173		(2)	(2)	2)	Common Stock	173	\$4.24	24,638	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 certain portions of 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

06/18/2013

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.