FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPRO	VAL					
l	OMB Number:	3235-0287					
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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 ar		2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner										
(Last)	Last) (First) (Middle) DNE CITYPLACE DRIVE							3. Date of Earliest Transaction (Month/Day/Year) 02/21/2012									10% Ow itle Other (sp below) ident & COO		·	
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				action	2A Ex if a	. Deer ecutio		3. Transaction Code (Instr. 8)		4. Securities Acquired (A)		l (A) or	5. Amor Securiti Benefic Owned		nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reported Transact (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 02/21/2							.012				10,850	A	\$14.1	5 ⁽¹⁾	118,457			D		
Common Stock															9,	597		I	By 401(k) plan	
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. Deem Execution if any (Month/Da	n Date,	4. Transa Code (8)				6. Date E Expiration (Month/I	on Da		7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		Do	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amoun or Numbe of Shares							
Restricted Stock Units	(2)	02/21/2012			M			10,850	(3)		(4)	Common Stock	10,850		(1)	0		D		

Explanation of Responses:

- 1. The reporting person received 21,700 restricted stock units on February 21, 2008. The restricted stock units vested as follows: 10,850 units vested on February 21, 2011 and 10,850 units vested on February 21, 2011 and 20,850 units vested on Fe 21, 2012. Upon vesting of 10,850 restricted stock units on February 21, 2012, the reporting person received 10,850 shares of common stock.
- 2. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 3. The reporting person received 21,700 restricted stock units on February 21, 2008. The restricted stock units vested ratably over a two-year period. On February 21, 2011, 10,850 restricted stock units vested and on February 21, 2012, 10,850 restricted stock units vested.
- 4. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-**Fact**

02/22/2012

** 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.