FORM 4

Check this box if no longer subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
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ı	hours per response.	0.5								

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

Name and Address of Reporting Person* Strobel Jeffrey W.						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									eck all applic Directo				10% Owner
(Last) ONE CIT	Last) (First) (Middle) DNE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/23/2012								7	below)	Officer (give title below) Vice Pres, Bus		Other (s below) & Strateg	
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Ir Line						
(City)	(5			-Deriv	,ative		curities	. Δc	auired	Disi	nosed o	f or	Rene	eficiall	v Owned	<u> </u>			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				action	ction 2A. Deemed Execution Date,		3. 4. Transaction D Code (Instr. 5)		4. Securi	I. Securities Acquired (A) Disposed Of (D) (Instr. 3,			5. Amou Securitie Beneficia Owned F	5. Amount of Securities Beneficially Owned Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(1	A) or D)	Price	Transact	eported ransaction(s) nstr. 3 and 4)			(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	onversion Date Execution Date, Code Exercise Code (Month/Day/Year) Execution Date, Code Code Code Exercise Execution Date, Code Execution Date, Execution Date, Code Execution Date, Execution Date, Code Execution Date, Execution Date,			Transad Code (I	nsaction of E			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ecurity	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisab		expiration Date	Title	O N	Amount or Number of Shares					
Employee Stock Options	\$13.93	02/23/2012			A		45,450		(1)	0	2/23/2022	Comn		15,450	\$0.00	45,45	0	D	
Restricted Stock Units	\$13.93	02/23/2012			A		18,000		(2)		(3)	Comn		18,000	\$0.00	18,00	0	D	

Explanation of Responses:

- 1. The options vest ratably over 3 years as follows: 15,150 shares vest on February 23, 2013; 15,150 shares vest on February 23, 2014; and 15,150 shares vest on February 23, 2015.
- 2. The reporting person received 18,000 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.
- 3. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-02/27/2012 **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.