FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average b	urden								

0.5

hours per response:

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>LORSON JOHN W</u>					2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>ARCH COAL INC</u> [ ACI ]							5. Relationsl Check all a Dire	/ner			
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/23/2012							X Offi bel	pecify			
(Street) ST. LOUIS MO 63141  (City) (State) (Zip)						·		of Original Fi	`			Line) X For	or Joint/Group m filed by On m filed by Mo son	e Rep	orting Perso	n
			le I - Non-I		_			<del>-</del>	_					1		
Date			. Transaction tate Month/Day/	Execution Date,			Code (Instr. 5)				and Secu Bene	ficially ed Following	Form (D) o	n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code	/ Amou	nt (A)	or Pric	Tran	action(s) 3 and 4)			(Instr. 4)		
		Т	able II - De (e					uired, Dis s, options					d			
1. Title of Derivative Security (Instr. 3)	Conversion Date		cise (Month/Day/Year) if any (Month/Day/Year)		Date, Transaction Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		of 9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s dlly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)
				Cod	e V	(A)	(D)	Date Exercisable	Expiration Date	n Title	Amou or Numb of Share	er				
Employee Stock Options	\$13.93	02/23/2012		A		5,950		(1)	02/23/20	Common Stock	5,95	0 \$0.00	5,950	)	D	
Restricted Stock Units	\$13.93	02/23/2012		A		2,350		(2)	(3)	Common	2,35	0 \$0.00	2,350	)	D	

## **Explanation of Responses:**

- 1. The options vest ratably over 3 years as follows: 1,984 shares vest on February 23, 2013; 1,983 shares vest on February 23, 2014; and 1,983 shares vest on February 23, 2015.
- 2. The reporting person received 2,350 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-Fact 02/27/2012

\*\* Signature of Reporting Person Da

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.