FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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* LORSON JOHN W					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									Check all D	applio recto	cable) or	g Per	son(s) to Iss	vner
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/19/2009												Other (s below) g Officer	вреспу	
(Street) ST. LOUIS MO 63141					4. If	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					
(City)	(Si	•	(Zip)	.Deriva	ative	tive Securities Acquired, Disposed of, or Beneficially Owned													
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				ction 2A. Deemed Execution Date,			3. Transac Code (II 8)	etion nstr. V	4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5) Amount (A) or (D)			5. Amou Securitie Beneficio Owned F Reported Transact (Instr. 3 a		nt of es Forn (D) of (I) (Ir d) tion(s)		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)		e.g., pu	4. Transacti Code (Ins		5. Number				Amount of Securities Underlying Derivative S (Instr. 3 and		d f g Security	8. Price Deriva Securi (Instr.	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				c	ode	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amoun or Numbe of Shares						
Employee Stock Options	\$14.05	02/19/2009			A		5,950		(1)	0:	2/19/2019	Common Stock	5,950	\$0.0	0	5,950		D	

Explanation of Responses:

1. The options vest ratably over 4 years as follows: 1,488 shares vest on February 19, 2010; 1,488 shares vest on February 19, 2011; 1,487 shares vest on February 19, 2012; 1,487 shares vest on February 19, 2013.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact 02/23/2009

** 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.