### SEC Form 4

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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

# OMB APPROVAL OMB Number: 3235-028

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1. Name and Addres LORSON JO	ss of Reporting Person <u>HN W</u>	1*	2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]	(Check	n(s) to Issuer 10% Owner Other (capacity		
(Last) (First) (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/16/2012	X	Officer (give title below) VP & Chief Acctg	Other (specify below) Officer	
(Street) ST. LOUIS MO 63141		63141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zip)					

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)					5. Amount of Securities Beneficially Owned 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 Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	02/16/2012		М		15,000	A	\$11.3	15,600	D	
Common Stock	02/16/2012		S		15,000	D	\$14.17	600	D	
Common Stock								689	Ι	By 401(k) plan

# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

3A. Deemed Execution Date, if any 1. Title of Derivative 3. Transaction Date 5. Number 6. Date Exercisable and Expiration Date 7. Title and Amount of Securities 8. Price of Derivative 9. Number of derivative 10. Ownership 11. Nature of Indirect 2. Conversion Transaction Underlying Derivative Security Derivative Security or Exercise (Month/Day/Year) Code (Instr. (Month/Day/Year) Security Securities Form: Beneficial (Instr. 3) Price of (Month/Day/Year) 8) (Instr. 5) Beneficially Direct (D) Securities Ownership (Instr. 3 and 4) Derivative Acauired Owned or Indirect (Instr. 4) Security (A) or Disposed Following (I) (Instr. 4) Reported of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4) Amount or Number Expiration of Shares Date (D) Code (A) Exercisable Date Title ν Employee Stock Commor 02/16/2012 (1) 15.000 1 700 Ontions \$11.3 M 15 000 04/25/2012 \$0.00 D Stock (right to buy)

Explanation of Responses:

1. The reporting person received 21,700 stock options on April 25, 2002. The stock options vested as follows: 5,425 stock options vested on April 25, 2003; 5,425 stock options vested on April 25, 2004; 5,425 stock options vested on April 25, 2005; and 5,425 stock options vested on April 25, 2006.

Remarks:

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

Fact

02/17/2012

\*\* 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.