LEER STEVEN F Form 4 June 23, 2006

### FORM 4

### OMB APPROVAL

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

gton, D.C. 20549

Number:

January 31,

Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Est bur

Estimated average burden hours per response... 0.5

Section 16.
Form 4 or
Form 5
obligations
may continue.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

See Instruction

1. Name and Ad LEER STEV	*	ing Person *	2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			
			(Month/Day/Year)	_X_ Director 10% Owner		
ONECITYPLACE DRIVE (Street)			06/22/2006	_X_ Officer (give title Other (specify below)		
			4. If Amendment, Date Original			
			Filed(Month/Day/Year)	Applicable Line)		
ST. LOUIS, MO 63141				_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	le I - Non-I	Derivative	Secur	ities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securition Dispose (Instr. 3, 4	ed of (		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock (1)	06/22/2006		M	90,000	A	\$ 11.45	92,020	D	
Common Stock (1)	06/22/2006		S	90,000	D	\$ 38.279	2,020	D	
Common Stock							48,925	I	By 401(k) plan

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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#### number.

# 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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	orDerivative Securities		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Options (right to buy)	\$ 11.45	06/22/2006		M		90,000	01/01/2004	06/30/2006	Common Stock	90,000

## **Reporting Owners**

Reporting Owner Name / Address	Relationships							
reporting owner runner runners	Director	10% Owner	Officer	Other				
LEER STEVEN F ONECITYPLACE DRIVE ST. LOUIS, MO 63141	X		Chairman and CEO					

### **Signatures**

/s/ Gregory A. Billhartz, Attorney-in-Fact 06/23/2006

\*\*Signature of Reporting Person Date

### **Explanation of Responses:**

- \* 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).
- (1) The exercise of employee stock options and sale of underlying shares of common stock by the executive officer reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the executive officer on May 19, 2006.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2