SEC Form 4

FORM 4

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

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to

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 3235-0287 OMB Number: Estimated average burden hours per response 0.5

1. Name and Add	, ,	Person*	2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]		tionship of Reporting Pe all applicable)	rson(s) to Issuer				
LEER STEV	<u>VENF</u>		_	X	Director	10% Owner				
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	X	Officer (give title below)	Other (specify below)				
ONECITYPL	ACE DRIVE		05/04/2007		Chairman and CEO					
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	6. Individual or Joint/Group Filing (Check Applicable Line)					
ST. LOUIS	MO	63141		X	Form filed by One Rep	ů, s				
(City)	(State)	(Zip)	-		Form filed by More that Person	an One Reporting				
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)						5. Amount of Securities Beneficially Owned Following Reported	Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Transaction of Code (Instr. Deriv 8) Sect Acqu (A) o Disp of (D		umber vative urities uired or oosed D) (Instr. and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Performance Rights	(1)	05/04/2007		М			89,700	(2)	12/31/2008	Common Stock	89,700	(3)	89,700 ⁽³⁾	D	
Phantom Stock	(1)	05/04/2007		м			89,700	(4)	(4)	Common Stock	89,700	(3)	89,700 ⁽³⁾	D	

Explanation of Responses:

1. Each performance-contingent phantom share represents a right to receive one share of common stock or the cash value thereof, unless otherwise deferred at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan (the "Plan").

2. The reporting person received 179,400 performance-contingent phantom shares on July 28, 2005. One-half of the performance-contingent phantom shares vest if the average closing price of Arch Coal's common stock for a period of 20 consecutive trading days meets or exceeds \$35.00 and the other half of the performance shares vest if the average closing price of Arch Coal's common stock for a period of 20 consecutive trading days meets or exceeds \$40.00, subject, in each case to the achievement of certain financial performance targets. On May 4, 2007, 89,700 performance-contingent phantom shares vested.

3. The reporting person received 179,400 performance-contingent phantom shares on July 28, 2005. One-half of the performance contingent phantom shares vest if the average closing price of Arch Coal, Inc.'s common stock for a period of 20 consecutive trading days meets or exceeds \$35.00, subject to the achievement of certain financial performance targets. Upon vesting of 89,700 performance contingent phantom shares on May 4, 2007, the reporting person deferred receipt of 89,700 shares of common stock pursuant to the Plan.

4. Shares of Arch Coal's common stock deferred pursuant to the Plan will be paid in annual installments or in a lump sum, at the reporting person's election, following termination of employment or on the dates specified by the reporting person in his payment election.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

05/08/2007

** 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.

Instruction 1(b)