
 OMB APPROVAL

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, DC 20549

FORM 5

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

- Check box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
 Form 3 Holdings Reported
 Form 4 Transactions Reported

1. Name and Address of Reporting Person*

Leer Steven F.

 (Last) (First) (Middle)
 CityPlace One, Suite 300

 (Street)
 St. Louis MO 63141

 (City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

Arch Coal, Inc. (ACI)

3. I.R.S. Identification Number of Reporting Person, if an entity (Voluntary)

4. Statement for Month/Year

December 31, 2002

5. If Amendment, Date of Original (Month/Year)

6. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

- Director 10% Owner
 Officer (give title below) Other (specify below)

President and Chief Executive Officer

7. Individual or Joint/Group Filing
 (check applicable line)

- Form filed by One Reporting Person
 Form filed by More than One Reporting Person

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 Table I -- Non-Derivative Securities Acquired, Disposed of,
 or Beneficially Owned
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1. Title of Security (Instr. 3)	2. Trans- action Date (mm/dd/yy)	2A. Deemed Execution Date, if any (mm/dd/yy)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned at the End of Issuer's Fiscal Year (Instr. 3 & 4)	6. Owner- ship Form: Direct (D) or Indirect (I) (Instr.4)	7. Nature of Beneficial Ownership (Instr.4)
				Amount	Price			
Common Stock	(1)		I	270	A	(1) 23,837	I	By 401(k) Savings Plan

Common Stock

1,010

D

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(1) Acquired on various dates in 2002 pursuant to Arch Coal, Inc.'s 401(k) plan at prices from \$16.42 to \$23.36 per share.

* If the form is filed by more than one reporting person, see instruction 4(b)(v).

