

1. Name and Address of Reporting Person* Parker James L. (Last) (First) (Middle) CityPlace One, Suite 300 (City) (State) (Zip) Missouri 63141 (Street) St. Louis
 2. Issuer Name and Ticker or Trading Symbol Arch Coal, Inc. - ACI
 3. IRS Identification Number of Reporting Person, if an Entity (Voluntary)
 4. Statement for Month/Year June 30, 2001
 5. If Amendment, Date of Original (Month/Year)
 6. Relationship of Reporting Person to Issuer (Check all applicable) Director 10% Owner Officer (give title below) Other (specify below)
 7. Individual or Joint/Group Filing (Check applicable line) Form filed by one Reporting Person Form filed by more than one Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (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 End of Month (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
		Code	V	Amount	Price			
Common Stock	06/01/01	P		900	A \$30.44	900	D	

* If the Form is filed by more than one Reporting Person, see Instruction 4(b)(v).

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. (Print or Type Response) (Over) FORM 4 (continued)

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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned at End of Month (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Direct or Indirect Beneficial Ownership (Instr. 4)
			Code	V	(A)	(D)	Date	Expiration Date	Title	Amount or Number of Shares				

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Explanation of Responses: /S/ Janet L. Horgan July 10, 2001 - ----- by: Janet L. Horgan Date as Attorney-in-Fact

** 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 provided is insufficient, see Instruction 6 for procedure. Page 2