U.S. SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM 3

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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(f) of the Investment Company Act of 1940

1. Name and Address o	f Reporting Person*		
Slone	Deck	S.	
(Last)		(Middle)
CityPlace One, Suite 30	0		
	(Street)		
St. Louis	Missouri	6	
(City)	(State)	(Zip)	
Data of Event Degu	iring Statement (Month/Dov/Vo		
•	iring Statement (Month/Day/Yea	ar)	
04/26/01	Number of Deporting Decom	if on Entity	()/oluntory)
3. IRS Identification	Number of Reporting Person, :	ir an Entity	(voluntary)
Arch Coal, Inc. (ACI)	cker or Trading Symbol		
 Relationship of Re (Check all applica 	porting Person to Issuer ble)		
[_] Director		10% Owner	
[X] Officer (give	,	Other (specify	/ below)
ice President - Invest	or and Public Relations		
6. If Amendment, Date	of Original (Month/Day/Year)		
7. Individual or Join	t/Group Filing (Check applica	able line)	
[X] Form Filed by	One Reporting Person		
$[_]$ Form Filed by	More than One Reporting Perso	on	
	Non-Derivative Securities Ber		
	=======================================		
			3. Ownership Form:
1. Title of Security	2. Amount of Se Beneficially		Direct (D) or Indirect (I)
(Instr. 4)	(Instr. 4)	y Owneu	(Instr. 5)
=======================================			

If the Form is filed by more than one Reporting Person, see Instruction 5(b)(v).

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

(Print of Type Responses)

(Over)

FORM	3	(continued)

Table II -- Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	 Date Exercisable and Expiration Date (Month/Day/Year) 		3. Title and Amount of Underlying Derivati (Instr. 4)	ive SecurityAmount	4. Conversion or		6. Nature of
1. Title of Derivative Security (Instr. 4)	Date	Expira- tion Date	Title	or Number of Shares	Exercise Price of Derivative Security	(D) or Indirect (I) (Instr. 5)	Indirect Beneficial Ownership (Instr. 5)
Employee Stock Option (Right to buy)	7/23/00	7/22/07	Common Stock	500	27.8750	D	
Employee Stock Option (Right to buy)	7/22/01	7/21/08	Common Stock	750	22.8750	D	
Employee Stock Option (Right to buy)	2/25/00(1)	2/24/09	Common Stock	3,000	10.6875	D	
Employee Stock Option (Right to buy)	2/22/02(1)	2/21/11 	Common Stock	2,900	21.9500	D	
=======================================	=======				=======================================	========	

Explanation of Responses:

(1) One-third of the shares are exercisable on such date with the rest becoming exercisable (a) one-half one year later and (b) one-half the following year.

/S/ Janet L. Horgan

May 10, 2001

Date

**Signature of Reporting Person (by Janet L. Horgan, Assistant Secretary attorney-in-fact for Deck S. Slone)

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.

(Print of Type Responses)