SEC Form 4	
------------	--

FO	RIVI 4	UNITEL	JSIAIESS	ECURITIES								
				Washingt	on, D.C.	2054	.9	OMB APPROVAL				ROVAL
Section 16. For	x if no longer subject t orm 4 or Form 5 ay continue. <i>See</i>)).	• STAT	Filed pursuar	E CHANGES nt to Section 16(a) of ction 30(h) of the Inv	of the Se	curitie	es Exchange A	ct of 193			MB Number: stimated average b purs per response:	3235-0287 urden 0.5
1. Name and Add POTTER R	ress of Reporting P	erson*		er Name and Ticke CH COAL IN			ymbol			ationship of Repo k all applicable) Director	orting Person(s) to 10%) Issuer 6 Owner
(Last) ONECITYPL	(First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) 06/30/2006							Officer (give title below)		Other (specify below)		
(Street)			4. If Ar	nendment, Date of	Original	Filed	(Month/Day/Ye	ear)	6. Indi Line)	vidual or Joint/G	roup Filing (Checl	<pre>Applicable</pre>
ST. LOUIS	МО	63141						Form filed by	One Reporting P	erson		
(City)	(State)	(Zip)								Form filed by Person	More than One R	eporting
			n-Derivative S	ecurities Acq	uired,	Disp	oosed of, o	r Bene	eficially	Owned		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	Execution Date,		ction Instr.	4. Securities Disposed Of (5)			5. Amount of Securities Beneficially Owned Followir Reported	Form: Direct (D) or Indirect	t 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)	4. Transa Code (8)		of Deriv Secu Acqu (A) o Dispo of (D (Insti	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		nd 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				
Phantom Stock	(1)	06/30/2006	07/06/2006	Α		561		(2)	(2)	Common stock	561	\$42.37	33,963 ⁽³⁾	D	

Explanation of Responses:

1. Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.

2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer certain portions of the phantom stock account into an alternative investment account at any time.

3. The director's phantom stock account has been adjusted for the two-for-one stock dividend in the form of a 100% stock dividend, payable by Arch Coal, Inc. on May 15, 2006 to all holders of record of common stock on May 5, 2006.

Remarks:

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

07/07/2006

** 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.