FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVA									
OMB Number	3235-0								

Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* BESTEN C HENRY JR						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									elationship o eck all applio Directo	able) r	g Pers	10% Ov	vner
(Last) ONE CIT	ΓYPLACE :	•	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 12/15/2011									below)		Other (spe below) Strategic Dev.		specify	
(Street) ST. LOU (City)	IS M		63141 (Zip)		4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable) Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - Noi	า-Deri	vativ	e Se	curities	s Acc	auired.	Disi	osed o	of. or	Ben	eficiall	y Owned				
1. Title of Security (Instr. 3) 2. Tra					saction /Day/Ye	ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A Disposed Of (D) (Instr. 3,			I (A) or	5. Amou Securitie Benefici Owned F	Amount of ecurities eneficially when Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	nount (A) or (D)		Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock 12				12/1	/15/2011		12/19/2011		I		6,452	2	A	\$14.3	2 6,	,452		I	By 401(k) Plan
Common Stock										<u> </u>				4,	4,650		D		
		7	Γable II -								sed of, onvertil				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day)	Date,	4. Transaction Code (Instr. 8)		n of		6. Date Ex Expiration (Month/Da	Date		7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		s Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e (10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisab		expiration Date	Title		Amount or Number of Shares					
Phantom Stock	(1)	12/15/2011			I		13,139		(2)		(2)	Comn		13,139	\$14.08 ⁽¹⁾	13,13	9	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 Executive Officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan") and represent past compensation, the vested portion of restricted stock awards and/or payouts under other incentive compensation arrangements that the Executive Officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal Common stock and/or dividends paid with respect to such deferral amounts.

2. Shares of phantom stock are payable in cash on the date or dates elected by the executive officer, subject to the terms of the Plan. The executive officer may transfer any and all of the phantom stock account into an alternative investment account at any time.

Remarks:

/s/ Robert G. Jones, Attorney-

12/19/2011

in-Fact

** 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.