

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Form S-8-A

POST-EFFECTIVE AMENDMENT TO
REGISTRATION STATEMENT UNDER
THE SECURITIES EXCHANGE ACT OF 1933

ARCH COAL, INC.

(Exact name of registrant as specified in its charter)

Delaware 43-0921172

(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)

CityPlace One, Suite 300, St. Louis, Missouri 63141
(Address of principal executive offices) (Zip Code)

COAL-MAC, INC. SAVINGS AND RETIREMENT PLAN
(Full title of the plan)

JEFFRY N. QUINN

ARCH COAL, INC.

SUITE 300, CITYPLACE ONE

ST. LOUIS, MO 63141

(314) 994-2720

(Name, address and telephone number of agent for service of process)

On July 1, 1997, 50,000 shares of Arch Coal, Inc.'s (the "Registrant") common stock, par value \$0.01 per share (the "Common Stock") were registered with the Securities and Exchange Commission ("SEC") ("the Coal-Mac, Inc. CMI Plan Registration Statement") for issuance in connection with and pursuant to the terms of the Coal-Mac, Inc. Savings and Retirement Plan (the "Plan"). The contents of the CMI Plan Registration Statement are hereby incorporated herein by reference to the extent not replaced hereby.

On January 1, 1998, the Plan was merged into the Arch Coal, Inc. Employee Thrift Plan (No. 333- 32777). Seven Thousand Three Hundred Seventy Two (7,372) shares of registered Common Stock remained unissued at the time the Plan was merged.

Pursuant to an undertaking in Item 9(a)(3) of the CMI Plan Registration Statement, 7,372 shares of the Registrant's Common Stock, are hereby deregistered, as well as any corresponding interests that have not been issued under the Plan.

SIGNATURES
The Registrant

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Post-Effective Amendment to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the County of St. Louis, State of Missouri, as of March 16, 1998.

ARCH COAL, INC.

By: /s/ Jeffry N. Quinn
Jeffry N. Quinn
Senior Vice President - Law
and Human Resources, General
Counsel and Secretary

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment to the Registration Statement has been signed by the undersigned persons in the capacities stated as of the 16th day of March, 1998. SIGNATURE CAPACITY

/s/ Steven F. Leer	President, Chief Executive Officer and Director (Principal Executive Officer)
Steven F. Leer	

/s/ Patrick A. Kriegshauser	Senior Vice President, Treasurer and Chief Financial Officer (Principal Financial Officer)
Patrick A. Kriegshauser	

/s/ James P. Pye	Controller (Principal Accounting Officer)
James P. Pye	

James R. Boyd	Director
Robert A. Charpie	Director
Paul W. Chellgren	Director
Thomas L. Feazell	Director
Juan Antonio Ferrando	Director
John R. Hall	Director
Robert L. Hintz	Director
Douglas H. Hunt	Director
Steven F. Leer	Director
Thomas Marshall	Director
James L. Parker	Director
J. Marvin Quin	Director
Ronald Eugene Samples	Director

By: /s/ Jeffry N. Quinn
Jeffry N. Quinn
As Attorney-in-Fact

THE PLAN. Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment to the Registration Statement has been signed by the undersigned Plan Administrator in the City of Huntington, State of West Virginia, as of the 16th day of March, 1998.

COAL-MAC, INC.
SAVINGS AND RETIRMENT PLAN

By: /s/ Richard Phillips
Richard Phillips
Plan Administrator