#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 11-K

(X) ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Fiscal Year Ended December 31, 2002

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( ) TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission File Number 1-13105

Title of the Plan -

ARCH COAL, INC. EMPLOYEE THRIFT PLAN

Name and Address of the issuer of the Securities  $\,$  Held Pursuant to the Plan -

Arch Coal, Inc. One City Place Drive, Suite 300 St. Louis, Missouri 63141

#### FINANCIAL STATEMENTS AND EXHIBITS

#### Financial Statements and Schedule

Independent Auditors' Report

Statement of Net Assets Available for Plan Benefits

Statement of Changes in Net Assets Available for Plan Benefits

Notes to Financial Statements

Schedule of Assets Held

#### Exhibits:

- 23 Consent of Rubin, Brown, Gornstein & Co. LLP, Independent Auditors
- 99.1 Statement Under Oath of Principal Executive Officer Regarding Facts and Circumstances Relating to Exchange Act Filings executed by Steven F.
- 99.2 Statement Under Oath of Principal Financial Officer Regarding Facts and Circumstances Relating to Exchange Act Filings executed by Robert J. Messey

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ARCH COAL, INC. EMPLOYEE THRIFT PLAN FINANCIAL STATEMENTS DECEMBER 31, 2002

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#### INDEPENDENT AUDITORS' REPORT

To the Audit Committee Arch Coal, Inc. Employee Thrift Plan St. Louis, Missouri

We have audited the accompanying statement of net assets available for plan benefits of the Arch Coal, Inc. Employee Thrift Plan as of December 31, 2002 and 2001 and the related statement of changes in net assets available for plan benefits for the years then ended. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for plan benefits at December 31, 2002 and 2001, and the changes in net assets available for benefits for the years then ended in conformity with accounting principles generally accepted in the United States of America.

/s/ Rubin, Brown, Gornstein & Co. LLP

St. Louis, Missouri June 17, 2003

## ARCH COAL, INC. EMPLOYEE THRIFT PLAN

#### STATEMENT OF NET ASSETS AVAILABLE FOR PLAN BENEFITS

	DECEMBER 31,		
	2002	2001	
ASSETS			
INVESTMENTS, AT FAIR VALUE (NOTE 3)  Money market  Mutual funds and common/collective fund Guaranteed investment account Company stock	\$ 1,564,190 106,587,507 55,380,598 15,495,457	\$ 1,543,086 119,599,522 50,853,111 16,289,419	
Participant loans (Note 4) Brokerage securities	9,618,429 7,787,352	9,924,227 8,809,499	
TOTAL INVESTMENTS	196,433,533	207,018,864	
NET ASSETS AVAILABLE FOR PLAN BENEFITS	\$ 196,433,533	\$ 207,018,864	

See the accompanying report letter and notes to financial statements.

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STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR PLAN BENEFITS FOR THE YEAR ENDED DECEMBER 31, 2002

FOR THE YEARS ENDED DECEMBER 31,

	ENDED DECEMBER 31,		
	2002	2001	
ADDITIONS TO NET ASSETS ATTRIBUTED TO: INVESTMENT INCOME (LOSS) (NOTE 3) Dividends and interest Net depreciation in fair value of investments	\$ 5,314,719 (26,599,478)	\$ 5,501,477 (21,381,000)	
NET INVESTMENT INCOME (LOSS)	(21, 284, 759)	(15, 879, 523)	
CONTRIBUTIONS Salary deferral contributions Employer contribution Employee after-tax contribution Rollover contribution	13,252,073 10,224,095 1,301,353 417,482	12,433,338 9,677,607 1,413,284 710,788	
TOTAL CONTRIBUTIONS	25,195,003	24,235,017	
TOTAL ADDITIONS	3,910,244	8,355,494	
DEDUCTIONS FROM NET ASSETS ATTRIBUTED TO: Benefits paid directly to participants	14,495,575	17,362,250	
NET DECREASE	(10,585,331)	(9,006,756)	
NET ASSETS AVAILABLE FOR PLAN BENEFITS - BEGINNING OF YEAR	207,018,864	216,025,620	
NET ASSETS AVAILABLE FOR PLAN BENEFITS - END OF YEAR	\$ 196,433,533	\$ 207,018,864	

See the accompanying report letter and notes to financial statements.

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DECEMBER 31, 2002 AND 2001

NOTES TO FINANCIAL STATEMENTS

#### DESCRIPTION OF THE PLAN

The Arch Coal, Inc. Employee Thrift Plan was established by Arch Coal, Inc. (Company) for the benefit of the eligible employees of the Company, its subsidiaries and controlled affiliates.

The following description of the Plan provides only general information. Participants should refer to the Summary Plan Description for a more complete description of the Plan's provisions.

Certain provisions of the Plan as described below do not apply to or have been modified for certain subsidiaries and affiliates of the Company.

#### **GENERAL**

The Plan, which has been adopted by Arch Coal, Inc. is a defined contribution profit sharing plan which includes a 401(k) provision. The Plan covers all full-time salaried employees, all full-time nonunion hourly employees, and certain union employees where specified by applicable collective bargaining agreements of the Company, its subsidiaries, and any controlled affiliates that elect to participate in the Plan. It is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

#### CONTRIBUTIONS

Participants may elect to defer between 1 percent and 50 percent of compensation, depending upon the location of the employee. Highly compensated employees may contribute up to 16%, with the exception of those employed at Mingo Logan who may contribute 17%. The percentage of employer match or nondiscretionary contribution also depends upon the location.

#### PARTICIPANT ACCOUNTS

Each participant's account is credited with the participant's contributions, the employer's matching contribution, if applicable, or employer non-discretionary contribution, if applicable, and an allocation of Plan earnings. The allocation of earnings is determined by the earnings of the participant's investment selection based on each participant's account balance, as defined in the Plan agreement. The benefit to which a participant is entitled is the benefit that can be provided from the participant's account.

#### Notes To Financial Statements (Continued)

#### **VESTING**

Participants are fully vested in their contributions plus actual earnings. All eligible employees of the Company at December 31, 1997 became fully vested in the Plan. Eligible employees hired subsequent to December 31, 1997 vest in Company contributions and earnings upon the completion of three full and consecutive years of service.

All participants become fully vested upon death while employed, total disability, or normal retirement age, regardless of the number of months of participation.

#### PARTICIPANT LOANS

Active participants, with some exceptions, may borrow from their fund accounts a minimum of \$500 or up to a maximum equal to the lesser of \$50,000 or 50 percent of their vested account balances. Loan terms range from one to five years or longer for the purchase of a primary residence. The loans are secured by the balance in the participant's account and bear interest at the prime rate listed in the Wall Street Journal on the day the loan is processed. Principal and interest is paid ratably through payroll deductions.

## PAYMENT OF BENEFITS

Upon death, termination of service, or attainment of age 70-1/2, a participant may elect to receive either a lump-sum amount equal to the value of the participant's vested interest in his or her account, a single annuity, a joint and survivorship annuity with various survivor options or a series of installment payments.

#### FORFEITED ACCOUNTS

Forfeited amounts of employer contributions are used to offset future Company matching contributions of the Plan. At December 31, 2002 and 2001, forfeited amounts available to reduce future Company contributions were \$273,997 and \$185,074, respectively.

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#### Notes To Financial Statements (Continued)

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

#### ESTIMATES AND ASSUMPTIONS

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

#### BASIS OF ACCOUNTING

The financial statements of the Plan are prepared under the accrual method of accounting.

#### INVESTMENT VALUATION AND INCOME RECOGNITION

Investments in mutual funds are valued at reported net asset value at December 31 as determined by the fund manager.

Investment income is recorded as earned on the accrual basis.

#### PAYMENT OF BENEFITS

Benefits are recorded when paid.

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#### Notes To Financial Statements (Continued)

#### INVESTMENTS

The Company has established a Pension Committee to oversee the activities of the Plan and has appointed the Vice President - Human Resources as the Plan Administrator. Fleet Bank is the trustee for the Plan and Putnam Fiduciary Trust Company is the Plan recordkeeper.

Investments at fair value as of December 31, 2002 and 2001 consist of the following:

	DECEMBER 31,			
		2002		2001
PUTNAM MONEY MARKET FUND	\$	1,564,190	\$	1,543,086
MUTUAL FUNDS AND COMMON COLLECTIVE FUND American Century Income and Growth Fund		23,606,930*		28,146,653*
Barclay's Lifepath 2010 Barclay's Lifepath 2020		599,395 554,161		160,372 488,589
Barclay's Lifepath 2030 Barclay's Lifepath 2040 Dodge & Cox Balanced Fund		223,176 238,111 12,219,588*		130,407 201,744
Franklin Templeton Balance Sheet Fund Investment Company of America		10,406,097 67,188		9,063,457
PIMCO Total Return Fund Putnam Balanced Fund		13,867,234* 63,475		10,070,589 14,858,769*
Putnam Growth Opportunities Fund Putnam International Growth Fund Putnam OTC Emerging Growth Fund		14,182,019* 7,833,417 1,304,682		19,755,092* 9,152,343 1,589,311
Putnam S&P 500 Index Putnam Vista Fund		16,023,021* 5,399,013		18,990,294* 6,991,902
TOTAL MUTUAL FUNDS AND COMMON/COLLECTIVE FUND		106,587,507		119,599,522
ARCH COAL, INC. COMMON STOCK		15,495,457*		16,289,419
PUTNAM DIRECT PERSONAL CHOICE RETIREMENT ACCOUNT		7,787,352		8,809,499
PRIMCO STABLE VALUE FUND		55,380,598*		50,853,111*
PARTICIPANT LOANS		9,618,429		9,924,227
		196,433,533	\$ =====	207,018,864

 $<sup>^{\</sup>star} \text{Investment}$  represents 5 percent or more of net assets at the beginning of the respective Plan year.

ARCH COAL, INC. EMPLOYEE THRIF	T PLAN
Notes To Financial Statements	(Continued)

CHANGES IN NET ASSETS AVAILABLE FOR PLAN BENEFITS:

	FOR THE YEAR ENDED DECEMBER 31,				
		2002		2001	
Investment Income (Loss): Dividends and interest Net depreciation in fair value of investments	\$	5,314,719 (26,599,478)		5,501,477 (21,381,000)	
Net Investment Income (Loss)	\$	(21,284,759)	\$	(15,879,523)	

Interest income on the Primco Stable Value Fund is calculated and credited daily based on the aggregate contract yield of the underlying investments. The investment contracts included in this fund had an average yield of 4.51% and 5.52% for the years ended December 31, 2002 and 2001, respectively. The average crediting interest rate was 5.52% and 5.87% at December 31, 2002 and 2001, respectively. The fair value of the investment contract was \$55,380,598 and \$50,853,111 at December 31, 2002 and 2001, respectively.

#### 4. PARTICIPANTS LOANS

Notes receivable are secured by participants' vested balances. The notes are due in bi-weekly payments including principal and interest at varying rates reflective of the prime rate as of the time of issue. The final installments are due at various dates.

#### 5. PLAN TERMINATION

Although it has not expressed intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan, subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts.

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Notes To Financial Statements (Continued)

#### TAX STATUS

The Plan obtained its latest determination letter on September 26, 2002 in which the Internal Revenue Service stated that the Plan, as then designed, was in compliance with the applicable requirements of the Internal Revenue Code. The Plan has been amended during 2002 to incorporate language required by the passing of certain laws, commonly referred to as "EGTRRA." The Plan Administrator and the Plan's tax counsel believe the Plan is correctly designed and operated with the applicable requirements of the Internal Revenue Code. Therefore, the Plan Administrator believes the Plan was qualified and the related trust tax exempt.

#### INDEPENDENT AUDITORS' REPORT ON SUPPLEMENTARY INFORMATION

Our audit was made for the purpose of forming an opinion on the basic financial statements taken as a whole. The schedule of assets held is presented for purposes of additional analysis and is not a required part of the basic financial statements, but is supplementary data required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Income Security Act of 1974. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ Rubin, Brown, Gornstein & Co. LLP

June 17, 2003

## ARCH COAL, INC. EMPLOYEE THRIFT PLAN

E.I.N. 43-0921172 PLAN 006 SCHEDULE OF ASSETS HELD DECEMBER 31, 2002

IDENTITY OF ISSUER	DESCRIPTION OF INVESTMENT	CURRENT VALUE
MONEY MARKET Putnam Investments	Putnam Money Market Fund	\$ 1,564,190
MUTUAL FUNDS AND COMMON/COLLECTIVE FUND American Fund Corporation American Fund Corporation	American Century Income and Growth Fund Investment Company of America	23,606,930 67,188
Barclay Global Investors Barclay Global Investors Barclay Global Investors Barclay Global Investors Dodge & Cox Funds Franklin Investments	Barclay's Lifepath 2010 Barclay's Lifepath 2020 Barclay's Lifepath 2030 Barclay's Lifepath 2040 Dodge & Cox Balanced Fund Franklin Templeton Balance Sheet Fund	599,395 554,161 223,176 238,111 12,219,588 10,406,097
PIMCO Investments PIMCO Investments Putnam Investments Putnam Investments Putnam Investments Putnam Investments	PIMCO Total Return Fund Putnam Balanced Fund Putnam Growth Opportunities Fund Putnam OTC Emerging Growth Fund Putnam International Growth Fund	10,406,097 13,867,234 63,475 14,182,019 1,304,682 7,833,417
Putnam Investments Putnam Investments Putnam Investments TOTAL MUTUAL FUNDS AND COMMO	Putnam S&P 500 Index Putnam Vista Fund	16,023,021 5,399,013 
COMMON STOCK Arch Coal, Inc.	Common stock	15,495,457
PARTICIPANT DIRECTED BROKERAGE ACCOUNTS Putnam	Putnam Direct Personal Choice	
	Retirement Account (Participants Directed Brokerage Accounts)	7,787,352
BALANCE CARRIED FORWARD		131,434,506

The above information is a required disclosure for IRS Form 5500, Schedule H, Part IV, line 4i.

E.I.N. 43-0921172 PLAN 006 SCHEDULE OF ASSETS HELD DECEMBER 31, 2002

TRENTITY OF TOURS	DESCRIPTION OF	CURRENT
IDENTITY OF ISSUER	INVESTMENT	VALUE
BALANCE BROUGHT FORWARD		\$ 131,434,506
GUARANTEED INVESTMENT ACCOUNT -		
PRIMCO STABLE VALUE FUND		
Allstate Life Insurance Company	Synthetic GIC	4,618,294
Allstate Life Insurance Company Wrapper	Synthetic GIC	(2,651,401)
Bank of America NT & SA	103-121E	11,196,578
Bank of America NT & SA Wrapper	103-121E	(173,944)
ING Life Insurance & Annuity Company	103-121E	4,534,176
ING Life Insurance & Annuity Company Wrapper	103-121E	(27,051)
John Hancock Life Insurance	PSA	3, 477, 562
John Hancock Life Insurance Wrapper	PSA	(282,581)
JP Morgan Chase Bank	103-121E	8,332,045
JP Morgan Chase Bank Wrapper	103-121E	(440,505)
Monumental Life Insurance Company	Synthetic GIC	2,521,723
Monumental Life Insurance Company Wrapper	Synthetic GIC	(168, 153)
Monumental Life Insurance Company	103-121E	8,491,357
Monumental Life Insurance Company Wrapper	103-121E	(302,628)
State Street Bank & Trust	Synthetic GIC	2,433,659
State Street Bank & Trust Wrapper	Synthetic GIC	(265,277)
State Street Bank & Trust	103-121E	1,710,384
State Street Bank & Trust Wrapper	103-121E	(108,816)
UBS AG	Synthetic GIC	7,034,163
UBS AG Wrapper	Synthetic GIC	(1,646,789)
Boston Company	Common/Collective Trust	4,279,494
Bus Men's Assur-MBIA Insd	GIC	1,512,771
Security Life of Denver	GIC	1,305,537
TOTAL GUARANTEED INVESTMENT ACCOUNT		55,380,598
PARTICIPANT LOANS	Notes Receivable	9,618,429
		\$ 196,433,533 

## SIGNATURE PAGE

Pursuant to the requirements of the Securities Exchange Act of 1934, the duly authorized Plan Administrator has executed this annual report.

ARCH COAL, INC. EMPLOYEE THRIFT PLAN

Date: June 20, 2003 By: /s/ Sheila Feldman

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Sheila Feldman Plan Administrator

## INDEX TO EXHIBITS

Exhibit 23	Consent of Rubin, Brown, Gornstein & Co. LLP, Independent Auditors
Exhibit 99.1	Statement Under Oath of Principal Executive Officer Regarding Facts and Circumstances Relating to Exchange Act Filings executed by Steven F. Leer
Exhibit 99.2	Statement Under Oath of Principal Financial Officer Regarding Facts and Circumstances Relating to Exchange Act Filings executed by Robert J. Messey

#### CONSENT OF INDEPENDENT AUDITORS

We consent to the incorporation by reference in the Registration Statement (Form S-8 No. 333-32777) pertaining to the Arch Coal, Inc. Employee Thrift Plan of our report dated June 17, 2003, with respect to the financial statements and supplemental schedule of Arch Coal, Inc. Employee Thrift Plan included in this Annual Report on Form 11-K for the years ended December 31, 2002 and 2001.

June 20, 2003

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of the Arch Coal, Inc. Employee Thrift Plan (the "Plan") on Form 11-K for the year ending December 31, 2002 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Steven F. Leer, Chief Executive Officer of Arch Coal, Inc., certifies, pursuant to 18 U.S.C. ss. 1350, as adopted pursuant to ss. 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Plan.

/s/ Steven F. Leer

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Steven F. Leer President and Chief Executive Officer June 20, 2003

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## CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of the Arch Coal, Inc. Employee Thrift Plan (the "Plan") on Form 11-K for the year ending December 31, 2002 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Robert J. Messey, Chief Financial Officer of the Company, certifies, pursuant to 18 U.S.C. ss. 1350, as adopted pursuant to ss. 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Plan.

/s/ Robert J. Messey

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Robert J. Messey Senior Vice President and Chief Financial Officer June 20, 2003