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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON D.C. 20549

FORM 11-K

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

(Mark One)

/X/ Annual report pursuant to Section 15(d) of the Securities
Exchange Act of 1934 (No fee required, effective October 7, 1996)

For the fiscal year ended December 31, 2003

Or

/_/ Transition report pursuant to Section 15(d) of the Securities
Exchange Act of 1934 (No fee required)

For the transition period from _____ to _____

Commission file number 1-14946

A. Full title of the plan and the address of the plan, if different
from that of the issuer named below:

CEMEX, Inc. Savings and Investment Plan
for Union Employees
1200 Smith Street
Suite 2400
Houston, Texas 77002

B. Name of issuer of the securities held pursuant to the plan and the
address of its principal executive office:

CEMEX,S.A. de C.V.
Av. Ricardo Margain Zozaya #325
Colonia del Valle Campestre
Garza Garcia, Nuevo Leon
Mexico 66265

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CEMEX, INC. SAVINGS AND
INVESTMENT PLAN FOR
UNION EMPLOYEES

Financial Statements and
Supplemental Schedules

December 31, 2003 and 2002
(With Independent Auditors' Report Thereon)

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

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The following schedules required by the Department of Labor's Rules and Regulations are omitted because of the absence of conditions under which they are required:

- Schedule G, Part I - Schedule of Loans or Fixed Income Obligations in Default or Classified as Uncollectible
- Schedule G, Part II - Schedule of Leases in Default or Classified as Uncollectible
- Schedule G, Part III - Nonexempt Transactions
- Schedule H, Line 4(i) - Schedule of Assets (Acquired and Disposed of Within the Plan Year)
- Schedule H, Line 4(j) - Schedule of Reportable Transactions

[Letterhead of Mir Fox & Rodriguez, P.C.]

INDEPENDENT AUDITORS' REPORT

Participants and Administrator of
CEMEX, Inc. Savings and Investment Plan
for Union Employees:

We have audited the accompanying statements of net assets available for benefits of the CEMEX, Inc. Savings and Investment Plan for Union Employees (the Plan) as of December 31, 2003 and 2002, and the related statement of changes in net assets available for benefits for the year ended December 31, 2003. 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 audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). 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 audits provide 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 benefits of the Plan as of December 31, 2003 and 2002, and the changes in net assets available for benefits for the year ended December 31, 2003, in conformity with accounting principles generally accepted in the United States of America.

Our audits were performed for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule of assets

(held at end of year) is presented for the purpose of additional analysis and is not a required part of the basic financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. This supplemental schedule is the responsibility of the Plan's management. The supplemental schedule has been subjected to the auditing procedures applied in the audits 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/ Mir Fox & Rodriguez

Houston, Texas
June 25, 2004

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Statements of Net Assets Available for Benefits
December 31, 2003 and 2002

Assets -----	2003 ----	2002 ----
Investments, at fair value:		
Mutual funds	\$ 1,315,532	2,617,636
Common collective trust fund	906,746	1,543,188
Common stock	315,291	301,484
Participant loans	175,554	218,259
	-----	-----
Total investments	2,713,123	4,680,567
Cash	2,486	23,512
	-----	-----
Total assets	2,715,609	4,704,079
Liabilities		
Trades payable	2,462	23,468
	-----	-----
Net assets available for benefits	\$ 2,713,147	4,680,611
	=====	=====

See accompanying notes to financial statements.

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Statement of Changes in Net Assets Available for Benefits
Year Ended December 31, 2003

Additions to net assets:	
Participant contributions	\$ 726,311

Employer contributions	217,032
Net appreciation in fair value of mutual funds	516,502
Net appreciation in fair value of common stock	122,957
Investment income	142,999

Total additions to net assets	1,725,801

Deductions from net assets:	
Transfer out of plan	3,676,704
Benefits paid to participants	15,393
Administrative fees and expenses	1,168

Total deductions from net assets	3,693,265

Net decrease in net assets available for benefits	(1,967,464)
Net assets available for benefits:	
Beginning of year	4,680,611

End of year	\$ 2,713,147
	=====

See accompanying notes to financial statements.

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Notes to Financial Statements
December 31, 2003 and 2002

1. Plan Description

General

The CEMEX, Inc. Savings and Investment Plan for Union Employees (the Plan) was adopted effective August 1, 1998 for the benefit of the union employees of the Clinchfield, Georgia and Charlevoix, Michigan plants of CEMEX, Inc. Effective September 1, 2003, the union employees of the Charlevoix, Michigan plant ceased participating in the Plan and became participants in the CEMEX, Inc. Savings Plan. In connection therewith, assets of \$3,676,704 were transferred from the Plan to the CEMEX, Inc. Savings Plan during 2003.

The Plan is qualified under section 401(a) of the Internal Revenue Code (IRC) as a defined contribution plan and is subject to the Employee Retirement Income Security Act of 1974, as amended (ERISA). The following is provided for general information purposes only. Participants should refer to the Plan Agreement for a more complete description of the Plan's provisions.

Eligibility

Union employees of the Clinchfield, Georgia and Charlevoix, Michigan plants of CEMEX, Inc. with at least three months of service are eligible to participate in the Plan. Plan entry dates are the first day of the calendar quarter coinciding with or following the completion of the service. Effective September 1, 2003, union employees of the Charlevoix, Michigan plant no longer participate in the Plan.

Contributions

Participants may contribute from 1% to 16% of their eligible pay, up to an annual maximum of the lesser of their eligible pay or \$40,000. Effective

August 1, 2003, participants employed at the Charlevoix, Michigan plant may contribute from 1% to 18% of their eligible pay for the period August 1, 2003 through August 31, 2003. Participants may also rollover certain amounts from other qualified defined benefit or contribution plans. Participants direct the investment of their participant contributions in the investment options listed in note 3.

CEMEX, Inc. (the Employer and Sponsor) matches 50% of the amount contributed by each participant up to the first 6% (5% prior to May 1, 2002) of eligible pay. Effective August 1, 2003, participants employed at the Charlevoix, Michigan plant will receive matching Employer contributions for the period August 1, 2003 through August 31, 2003 equal to 75% of their amount contributed up to the first 6% of eligible pay.

The Employer contributions are in the form of American Depository Shares representing common stock of CEMEX, S.A. de C.V. (CEMEX stock). Effective April 12, 2002, a participant may, at any time after the CEMEX stock is credited to his or her account, make a diversification election and exercise investment discretion with respect to the Employer matching contribution. Prior to April 12, 2002, a participant must have attained the age of 59 1/2 before exercising investment discretion with respect to the CEMEX stock that was purchased with Employer contributions. The Employer may make additional contributions in accordance with the provisions of the Plan Agreement.

Continued

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

Participant accounts

Separate accounts are maintained for each participant as follows. Participant accounts are credited with the participant's contribution and allocations of the Employer's contributions and Plan earnings. Allocations are based on each participant's earnings or account balance, as defined in the Plan Agreement. Each participant is entitled to the benefit that can be provided from the participant's account.

Vesting

Participants are immediately and fully vested in all contributions plus actual earnings thereon.

Benefit payments

Benefits are payable from participant account balances, subject to certain restrictions, upon termination of employment, retirement, reaching the age of 59 1/2, or by incurring a disability or financial hardship, as defined in the Plan Agreement. Participants elect the method of distribution which may be either in the form of a direct rollover to an eligible retirement plan, lump sum payment or, if in excess of \$5,000, payment over a period of time not to exceed the shorter of 10 years or certain life expectancies as defined in the Plan Agreement.

Participant loans

A participant may obtain a loan from his or her separate account balance. Each loan is evidenced by a promissory note and may not be less than \$1,000. The loans are secured by the balance in the participant's account and bear interest at the rate established by the Loan Committee. Provisions of the Plan require the aggregate of each loan outstanding not to exceed the lesser of \$50,000 or 50% of the participant's vested account

balance. Repayment terms for loans are not to exceed five years and principal and interest is paid ratably through monthly payroll deductions.

Administrative expenses

Asset management fees are paid by the Plan, loan fees are paid by the borrowing participant, and all other administrative costs are paid by the Sponsor.

Forfeited accounts

Amounts forfeited for any reason shall first be used to restore previously forfeited participant accounts which are to be restored under the terms of the Plan and if any amount remains after that allocation, it shall be used to reduce the Employer matching contribution for that Plan year.

Plan termination

Although no interest has been expressed, the Employer has the right under the Plan to terminate the Plan subject to the provisions of ERISA.

Continued

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

2. Significant Accounting Policies

Basis of presentation

The financial statements have been prepared on an accrual basis and present the net assets available for plan benefits and changes in those net assets in accordance with accounting principles generally accepted in the United States of America.

Investment valuation and income recognition

The mutual funds, common collective trust fund and common stock are stated at fair value based on quoted market prices as of the date of the financial statements. Participant loans are valued at their outstanding balances, which approximate fair value. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

Benefit payments

Benefits are recorded when paid.

Use of estimates

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, liabilities, and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

3. Investments

As of December 31, 2003 and 2002, participant contributions to the Plan

were invested at the option of the participants in one or more of the following investment funds:

	2003 ----	2002 ----
Stable Value Fund	\$ 906,746	1,543,188
Washington Mutual Investors Fund	337,645	626,364
CEMEX stock	315,291	301,484
PIMCO Total Return Fund	260,485	
MFS Research Fund	179,368	367,350
Templeton Foreign Fund	170,249	287,841
Franklin Balance Sheet Investment Fund	114,267	253,298
Franklin Real Estate Securities Fund	78,152	183,231
ING International Small Cap Growth Fund	55,139	107,296
AIM Constellation Fund	46,591	43,451
Templeton Developing Markets Fund	40,573	66,878
Franklin Small Mid-Cap Growth Fund	22,384	74,150
Putnam New Opportunities Fund	10,628	55,434
Alliance Capital Reserve Account	51	245
Bond Fund of America		552,098
Participant loans	175,554	218,259
	-----	-----
	\$ 2,713,123	4,680,567
	=====	=====

Continued

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

Investments with a fair value that exceeds \$135,657 and \$234,031 at December 31, 2003 and 2002, respectively, represent 5% or more of Plan net assets.

4. Federal Income Tax Status

The Plan obtained its latest determination letter on June 14, 2002 in which the Internal Revenue Service stated that the Plan, as then designed, was in compliance with the applicable requirements of the IRC. The Plan's management believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC. Therefore, the Plan's management believes that the related trust is tax-exempt and accordingly, no provision for Federal income taxes has been included in the Plan's financial statements.

5. Risks and Uncertainties

The Plan provides for investment in a common collective trust fund, various mutual funds, and common stock. Investment securities, in general, are exposed to various risks, such as interest rate, credit and overall market volatility risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
 FOR UNION EMPLOYEES
 Schedule of Assets (Held at End of Year)
 December 31, 2003

(a)	(b)	(c)	(e)
	Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par or maturity value	Current value
	INVESCO Trust Company	Stable Value Fund; 906,746 shares	\$ 906,746
	Washington Mutual	Washington Mutual Investors Fund; 11,732 shares	337,645
*	CEMEX, S.A. de S.V.	American Depository Shares; 12,034 shares	315,291
	PIMCO	Total Return Fund; 24,322 shares	260,485
	MFS Fund Distributors, Inc.	MFS Research Fund; 10,255 shares	179,368
	Franklin Templeton Investor Services, Inc.	Templeton Foreign Fund; 16,001 shares	170,249
	Franklin Templeton Investor Services, Inc.	Franklin Balance Sheet Investment Fund; 2,402 shares	114,267
	Franklin Templeton Investor Services, Inc.	Franklin Real Estate Securities Fund; 3,635 shares	78,152
	ING Pilgrim Group	ING International Small Cap Growth Fund; 2,033 shares	55,139
	AIM Family of Funds	AIM Constellation Fund; 2,166 shares	46,591
	Franklin Templeton Investor Services, Inc.	Templeton Developing Markets Fund; 2,707 shares	40,573
	Franklin Templeton Investor Services, Inc.	Franklin Small Mid-Cap Growth Fund; 741 shares	22,384
	Putnam Investments	Putnam New Opportunities Fund; 282 shares	10,628
	Pershing	Alliance Capital Reserve Account; 51 shares	51
*	Participant loans	5.2% to 9.5%; 1-5 year term; payable monthly	175,554
			\$ 2,713,123
			=====
*	Party-in-interest		

SIGNATURES

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plans) have duly caused this annual report to be signed on its behalf by the undersigned, thereunto duly authorized.

CEMEX, INC. SAVINGS AND INVESTMENT PLAN
 FOR UNION EMPLOYEES

By: /s/ Andrew M. Miller

 Name: Andrew M. Miller
 Title: Chairman of Administrative Committee

Date: June 30, 2004

EXHIBIT INDEX

Exhibit No.	Description
1.	Consent of Mir Fox & Rodriguez, P.C. to the incorporation by reference into the Registration Statement on Form S-8 (File No. 333-86090) of CEMEX, S.A. de C.V. of its report, dated June 25, 2004,

with respect to the audited financial statements of
the CEMEX, Inc. Savings and Investment Plan For
Union Employees as of December 31, 2003.

EXHIBIT 1

CONSENT OF INDEPENDENT AUDITORS

As independent auditors, we hereby consent to the incorporation by
reference of our report dated June 25, 2004, included in this Form 11-K, into
the previously filed registration statement on Form S-8 of the CEMEX, Inc.
Savings and Investment Plan For Union Employees (File No. 333-86090).

/s/ Mir Fox & Rodriguez

Mir Fox & Rodriguez, P.C.

Houston, Texas
June 28, 2004