
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, 2004

Or

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

Commission file number 1-14946

CEMEX, Inc. Savings and Investment Plan for Union Employees 840 Gessner Road Suite 1400 Houston, Texas 77024

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 Valle del Campestre Garza Garcia, Nuevo Leon Mexico 66265

CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Financial Statements and Supplemental Schedules

December 31, 2004 and 2003 (With Independent Auditors' Report Thereon)

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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 $\tt Uncollectible$
- Schedule G, Part III Nonexempt Transactions
- Schedule H, Line 4(a) Delinquent Employee Contributions and Loan Repayments
- 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

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM'S 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, 2004 and 2003, and the related statement of changes in net assets available for benefits for the year ended December 31, 2004. 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 generally accepted auditing standards as established by the Auditing Standards Board (United States) and 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. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's

internal control over financial reporting. Accordingly, we express no such opinion. 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, 2004 and 2003, and the changes in net assets available for benefits for the year ended December 31, 2004, 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 audit of the 2004 basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the 2004 basic financial statements taken as a whole.

/s/ Mir.Fox & Rodriguez, P.C.

Houston, Texas June 29, 2005

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Statements of Net Assets Available for Benefits December 31, 2004 and 2003

Assets 	2003	2002
Investments, at fair value: Mutual funds Common collective trust fund Common stock Participant loans	\$ 1,758,295 900,541 583,048 195,588	1,315,532 906,746 315,291 175,554
raiticipant Ioans	193,300	173,334
Total investments	3,437,472	2,713,123
Employee contributions receivable Employer contributions receivable Other accounts receivable	8,410 2,587 1,969	
Cash	18	2,486
Total assets	3,450,456	2,715,609
Liabilities		
Investment trades payable		2,462
Net assets available for benefits	\$ 3,450,456	2,713,147

See accompanying notes to financial statements.

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Statement of Changes in Net Assets Available for Benefits $$\operatorname{Year}$$ Ended December 31, 2004

Additions to net assets: Participant contributions Employer contributions Net appreciation in fair value of mutual funds Net appreciation in fair value of common stock Investment income	\$ 375,810 111,016 151,791 148,879 113,524
Total additions to net assets	 901,020
Deductions from net assets: Benefits paid to participants Administrative fees and expenses	 162,409 1,302
Total deductions from net assets	 163,711
Net decrease in net assets available for benefits	737,309
Net assets available for benefits: Beginning of year	 2,713,147
End of year	\$ 3,450,456

See accompanying notes to financial statements.

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Notes to Financial Statements December 31, 2004 and 2003

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 certain union employees of CEMEX, Inc. Effective April 1, 2005, the union employees of

the Clinchfield, Georgia plant ceased participating in the Plan and became participants in the CEMEX, Inc. Savings Plan. In connection therewith, assets of \$3,579,136 were transferred from the Plan to the CEMEX, Inc. Savings Plan subsequent to December 31, 2004. 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 plant 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 service. Effective April 1, 2005, union employees of the Clinchfield, Georgia plan ceased participating 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. 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% 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). 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. The Employer may make additional contributions in accordance with the provisions of the Plan Agreement.

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.

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

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

Loan fees are paid by the borrowing participant and all other administrative costs are paid by the Sponsor.

Plan termination

The Employer has the right under the Plan to terminate the Plan subject to the provisions of ERISA.

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.

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

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, 2004 and 2003, participant contributions to the Plan were invested at the option of the participants in one or more of the following investment funds:

		2004	2003
INVESCO Stable Value Fund	\$	900,541	906,746
CEMEX stock		583,048	315,291
Washington Mutual Investors Fund		428,908	337,645
PIMCO Total Return Fund		328,016	260,485
Growth Fund of America		300,815	
Templeton Foreign Fund		234,156	170,249
Franklin Balance Sheet Investment Fund		163,941	114,267
American Century Investments Real Estate Fund		133,229	
MFS International Fund		81,299	
Templeton Developing Markets Fund		56,647	40,573
Franklin Small Mid-Cap Growth Fund		31,190	22,384
Alliance Capital Reserve Account		94	51
MFS Research Fund			179,368
Franklin Real Estate Securities Fund			78,152
ING International Small Cap Growth Fund			55,139
AIM Constellation Fund			46,591
Putnam New Opportunities Fund			10,628
Participant loans		195,588	175,554
	\$ 3	3,437,472	2,713,123
	===		=======

Investments with a fair value that exceeds \$172,523 and \$135,657 at December 31, 2004 and 2003, 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 has been amended since receiving the determination letter. However, 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.

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CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Notes to Financial Statements, Continued

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.

Supplemental Schedule H, Line 4(i) Plan Sponsor No. 72-0296500 Plan No. 010

CEMEX, INC. SAVINGS AND INVESTMENT PLAN FOR UNION EMPLOYEES

Schedule of Assets (Held at End of Year) December 31, 2004

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par or maturity value	Cur	(e) rent ilue
	INVESCO Trust Company	Stable Value Fund; 900,541 shares		00,541
*	Cemex, S.A. de C.V.	American Depository Shares; 16,009 shares		33,048
	Washington Mutual	Washington Mutual Investors Fund; 13,935 shares		8,908
	PIMCO	Total Return Fund; 30,742 shares		8,016
	American Funds	Growth Fund of America; 10,987 shares	30	0,815
	Franklin Templeton Investor Services, Inc.	Templeton Foreign Fund; 19,037 shares	23	34,156
	Franklin Templeton Investor Services, Inc.	Franklin Balance Sheet Investment Fund; 2,814 shares	16	3,941
	American Century Investments	Real Estate Fund; 5,383 shares	13	33,229
	MFS Fund Distributors, Inc.	MFS International Fund; 3,810 shares	8	31,299
	Franklin Templeton Investor Services, Inc.	Templeton Developing Markets Fund; 3,059 shares	5	6,647
	Franklin Templeton Investor Services, Inc.	Franklin Small Mid-Cap Growth Fund; 913 shares	3	31.190
	Pershing	Alliance Capital Reserve Account; 94 shares		94
*	Participant loans	5.24% to 9.50%; 1-5 year term; payable monthly	19	5,588
			s 3.43	37.472
			7 3,43	

* Party-in-interest

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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, 2005

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 29, 2005, with respect to the audited financial statements of the CEMEX, Inc. Savings and Investment Plan for Union Employees as of December 31, 2004.

EXHIBIT 1

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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

We consent to the incorporation by reference in the Registration Statement (No. 333-86090) on Form S-8 of CEMEX, S.A. de C.V. of our report dated June 29, 2005, with respect to the statements of net assets available for benefits of CEMEX, Inc. Savings and Investment Plan for Union Employees as of December 31, 2004 and 2003, the related statement of changes in net assets available for benefits for the year ended December 31, 2004 and the related supplemental schedule of assets (held at end of year) as of December 31, 2004, which report appears in the December 31, 2004 annual report on Form 11-K of CEMEX, Inc. Savings and Investment Plan for Union Employees.

/s/ Mir.Fox & Rodriguez, P.C.

Houston, Texas June 29, 2005