SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G Under the Securities Exchange Act of 1934

(Amendment No. 5)*

CEMEX, S.A.B. de C.V.

(Name of Issuer)

Ordinary Participation Certificates

(Title of Class and Securities)

2406457

(CUSIP Number of Class of Securities)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

/X/ Rule 13d-1(b) / / Rule 13d-1(c) / / Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

| (Continued | on | following | page(s)) |
|------------|----|-----------|----------|
|------------|----|-----------|----------|

| CUSI | P No. 2406457 13G |
|------|---|
| (1) | NAMES OF REPORTING PERSONS Southeastern Asset Management, Inc. I.D. No. 62-0951781 |
| (2) | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP: (a) (b) X |
| (3) | SEC USE ONLY |
| (A) | CITIZENSHID OD DIACE OF ODGANIZATION |

(4) CITIZENSHIP OR PLACE OF ORGANIZATION Tennessee

| | | :(5) | SOLE VOTING POWER | | |
|---|--|-------|-----------------------------|--|--|
| | | : | (Discretionary Accounts) | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON | | : | 395,947,294 shares | | |
| WITH | | :(6) | SHARED OR NO VOTING POWER | | |
| | | | 390,671,910 shares (Shared) | | |
| | | | 66,599,450 shares (No Vote) | | |
| | | :(7) | SOLE DISPOSITIVE POWER | | |
| | | | (Discretionary Accounts) | | |
| | | : | 462,272,244 shares | | |
| | | :(8) | SHARED DISPOSITIVE POWER | | |
| | | : | 390,671,910 shares (Shared) | | |
| | | | 274,500 shares (None) | | |
| (9) A | GGREGATE AMOUNT BENEFICIALLY | OWNED | D BY EACH REPORTING PERSON | | |
| | (Discretionary & Non-discretionary Accounts) | | | | |
| | 853,218,654 shares | | | | |
| (10) | (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES | | | | |
| CERTAIN SHARES -X- See Items 4(c)(ii) and (iv) | | | | | |
| (11) | <pre>(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 10.6 %</pre> | | | | |
| . , | TYPE OF REPORTING PERSON IA | | | | |

CUSIP No. 2406457

13G

| (1) | NAMES OF REPORTING PERSONS O. Mason Hawkins | I.D. No. XXX-XX-XXXX |
|-----|--|--------------------------|
| (2) | CHECK THE APPROPRIATE BOX IF A MEMBER OF | A GROUP: (a) (b) X |

(3) SEC USE ONLY

(4) CITIZENSHIP OR PLACE OF ORGANIZATION Citizen of United States

| : (5) | SOLE VOTING POWER | |
|--|--|--|
| : (| (Discretionary Accounts) | |
| | None | |
| • | | |
| • (6) | SHARED VOTING POWER | |
| • (0) | SHARED VOLING FOWER | |
| | | |
| : | None | |
| | | |
| :(7) | SOLE DISPOSITIVE POWER | |
| | | |
| : | None | |
| | | |
| :(8) | SHARED DISPOSITIVE POWER | |
| | | |
| • | None | |
| • | | |
| (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | |
| (3) AGGREGATE AMOUNT DEMERICIALLY OWNED BY EACH REPORTING PERSON | | |
| | | |
| | | |
| | | |
| (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES | | |
| | | |
| | | |
| 1) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 | | |
| | | |
| | : : : (6) : : (7) : : (8) : OWNEI | |

Item 1.

- (a). Name of Issuer: CEMEX, S.A.B. de C.V. ("Issuer")
- (b). Address of Issuer's Principal Executive Offices:

Av. Ricardo Margain Zozaya #325 Colonia Valle del Campestre Garza Garcia, Nuevo Leon Mexico 66265

Item 2.

(a). and (b). Names and Principal Business Addresses of Persons Filing

(2) Mr. O. Mason Hawkins Chairman of the Board and C.E.O. Southeastern Asset Management, Inc. 6410 Poplar Ave., Suite 900 Memphis, TN 38119

(c). Citizenship:

Southeastern Asset Management, Inc. - A Tennessee corporation

Mr. O. Mason Hawkins - U.S. Citizen

- (d). Title of Class of Securities: Ordinary Participation Certificates (the "Securities").
- (e). Cusip Number: 2406457
- Item 3. If this statement is filed pursuant to Rules 13d-1 (b) or 13d-2 (b), check whether the person filing is a:
- (e.) Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940. This statement is being filed by Southeastern Asset Management, Inc. as a registered investment adviser. All of the securities covered by this report are owned legally by Southeastern's investment advisory clients and none are owned directly or indirectly by Southeastern. As permitted by Rule 13d-4, the filing of this statement shall not be construed as an admission that Southeastern Asset Management, Inc. is the beneficial owner of any of the securities covered by this statement.
- (g.) Parent Holding Company. This statement is also being filed by Mr. O. Mason Hawkins, Chairman of the Board and C.E.O. of Southeastern Asset Management, Inc. in the event he could be deemed to be a controlling person of that firm as the result of his official positions with or ownership of its voting securities. The existence of such control is expressly disclaimed. Mr. Hawkins does not own directly or indirectly any securities covered by this statement for his own account. As permitted by Rule 13d-4, the filing of this statement shall not be construed as an admission that Mr. Hawkins is the beneficial owner of any of the securities covered by this statement.

Item 4. Ownership:

(a). Amount Beneficially Owned: (At 06/30/08)

⁽¹⁾ Southeastern Asset Management, Inc. 6410 Poplar Ave., Suite 900 Memphis, TN 38119

853,218,654 shares

(b). Percent of Class:

10.6 %

Above percentage is based on 8,078,717,336 shares of Ordinary Participation Certificates outstanding. The filers' holdings consist of 69,783,974 American Depository shares (each representing 10 Ordinary Participation Certificates), 13,576,686 American Depository shares underlying options and 19,612,054 Ordinary Participation Certificates.

- (c). Number of shares as to which such person has:
 - (i). sole power to vote or to direct the vote:

395,947,294 shares

(ii). shared or no power to vote or to direct the vote:

Shared - 390,671,910 shares. Securities owned by the following series of Longleaf Partners Funds Trust, an open-end management investment company registered under the Investment Company Act of 1940, as follows:

Longleaf Partners Fund - 329,013,970 shares Longleaf International Fund - 61,657,940 shares

No Power to Vote - 66,599,450 shares. This figure does not include 9,060,760 shares held by completely non-discretionary accounts over which the filing parties have neither voting nor dispositive power and for which the filing parties disclaim beneficial ownership.

(iii). sole power to dispose or to direct the disposition of:

462,272,244 shares

(iv). shared or no power to dispose or to direct the disposition of:

Shared - 390,671,910 shares Securities owned by the following series of Longleaf Partners Funds Trust, an open-end management investment company registered under the Investment Company Act of 1940, as follows:

Longleaf Partners Fund - 329,013,970 shares Longleaf Partners International Fund - 61,657,940

No Power - 274,500 shares. This figure does not include 9,060,760 shares held by completely non-discretionary accounts over which the filing parties have neither voting nor dispositive power and for which the filing parties disclaim beneficial ownership.

Item 5. Ownership of Five Percent or Less of a Class: N/A

- Item 6. Ownership of More Than Five Percent on Behalf of Another Person: $\ensuremath{\text{N/A}}$
- Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company: N/A
- Item 8. Identification and Classification of Members of the Group: $N/{\rm A}$

Item 9. Notice of Dissolution of Group: N/A

Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

Signatures

After reasonable inquiry and to the best of the knowledge and belief of the undersigned, the undersigned certifies that the information set forth in this statement is true, complete, and correct.

Dated: July 9, 2008

Southeastern Asset Management, Inc.

By /s/ Andrew R. McCarroll

Andrew R. McCarroll Vice President and General Counsel

O. Mason Hawkins, Individually

/s/ O. Mason Hawkins

Joint Filing Agreement

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, the persons or entities named below agree to the joint filing on behalf of each of them of this Schedule 13G with respect to the Securities of the Issuer and further agree that this joint filing agreement be included as an exhibit to this Schedule 13G. In evidence thereof, the undersigned hereby execute this Agreement as of July 9, 2008.

Southeastern Asset Management, Inc.

By /s/ Andrew R. McCarroll

Andrew R. McCarroll Vice President and General Counsel

O. Mason Hawkins, Individually

/s/ O. Mason Hawkins

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