

CEMEX SAB DE CV  
Form 6-K  
April 27, 2010

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

**FORM 6-K**  
**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 or 15d-16**  
**UNDER THE SECURITIES EXCHANGE ACT OF 1934**

Date of Report: April 27, 2010

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

(Exact name of Registrant as specified in its charter)

CEMEX Publicly Traded Stock Corporation

(Translation of Registrant's name into English)

United Mexican States

(Jurisdiction of incorporation or organization)

Av. Ricardo Margáin Zozaya #325, Colonia Valle del Campestre

Garza García, Nuevo León, México 66265

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F  Form 40-F

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Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes  No

If  Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

N/A

**Contents**

1. Press release, dated April 27, 2010, announcing first quarter 2010 results for CEMEX, S.A.B. de C.V. (NYSE:CX).
2. First quarter 2010 results for CEMEX, S.A.B. de C.V. (NYSE:CX).
3. Presentation regarding first quarter 2010 results for CEMEX, S.A.B. de C.V. (NYSE:CX).

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, CEMEX, S.A.B. de C.V. has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

CEMEX, S.A.B. de C.V.  
(Registrant)

Date: April 27, 2010

By: /s/ Rafael Garza  
Name: Rafael Garza

Title: Chief Comptroller

**EXHIBIT INDEX**

| <u>EXHIBIT NO.</u> | <u>DESCRIPTION</u>  |
|--------------------|---|
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