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**SECURITIES AND EXCHANGE COMMISSION**

Washington, DC 20549

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**FORM 6-K**

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**REPORT OF FOREIGN PRIVATE ISSUER  
PURSUANT TO RULE 13a-16 OR 15d-16 OF  
THE SECURITIES EXCHANGE ACT OF 1934**

For the month of August, 2012

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**ChipMOS TECHNOLOGIES (Bermuda) LTD.**

(Translation of Registrant's Name Into English)

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No. 1, R&D Rd. 1, Hsinchu Science Park  
Hsinchu, Taiwan  
Republic of China  
(Address of Principal Executive Offices)

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

Form 20-F       Form 40-F

(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): 82- .)

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ChipMOS TECHNOLOGIES (Bermuda) LTD.  
(Registrant)

Date: August 20, 2012

By /s/ S. J. Cheng

Name: S. J. Cheng

Title: Chairman & Chief Executive Officer

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**ChipMOS ANNOUNCES A NEW US\$10 MILLION SHARES REPURCHASE PROGRAM**

**Hsinchu, Taiwan, August 20, 2012** - ChipMOS TECHNOLOGIES (Bermuda) LTD. (“ChipMOS” or the “Company”) (Nasdaq: IMOS) today announced it would effect a new US\$10 million share repurchase program in compliance with Rule 10b5-1 and Rule 10b-18 under the Securities Exchange Act of 1934, as amended (the “Exchange Act”).

The Company’s Board of Directors on August 10, 2012 authorized the management to commence evaluation of a new share repurchase plan to replace the existing share repurchase plan adopted in November 2011. The existing share repurchase plan will be terminated effective August 20, 2012. Information on the existing share repurchase plan was disclosed on Company’s press release dated November 18, 2011.

Under the new share repurchase plan, shares will be repurchased pursuant to a written plan agreed to and entered into between the Company and its broker. The plan specifies the total value of shares of the Company’s common stock that may be repurchased and the prices at which the repurchases may occur, subject to the terms and conditions of the plan and applicable law requirements. Purchases under the plan are subject to certain pricing parameters that depend in part upon market prices that fluctuate. Therefore there is no guarantee as to the number of shares that may be repurchased under the plan. The repurchased shares will be retired and cancelled.

This press release, to be filed on Form 6-K, will be hereby incorporated by reference into the registration statements on Form F-3 of the Company (File Nos. 333-181367) and will be a part thereof from the date on which this report is furnished, to the extent not superseded by documents or reports subsequently filed or furnished.

**About ChipMOS TECHNOLOGIES (Bermuda) LTD.:**

ChipMOS (<http://www.chipmos.com>) is a leading independent provider of semiconductor testing and assembly services to customers in Taiwan, Japan, and the U.S. With advanced facilities in Hsinchu and Southern Taiwan Science Parks in Taiwan and Shanghai, ChipMOS and its subsidiaries provide testing and assembly services to a broad range of customers, including leading fabless semiconductor companies, integrated device manufacturers and independent semiconductor foundries.

**Forward-Looking Statements**

*Certain statements contained in this announcement may be viewed as “forward-looking statements” within the meaning of Section 27A of the U.S. Securities Act of 1933, as amended, and Section 21E of the U.S. Securities Exchange Act of 1934, as amended. Such forward-looking statements involve known and unknown risks, uncertainties and other factors, which may cause the actual performance, financial condition or results of operations of the Company to be materially different from any future performance, financial condition or results of operations implied by such forward-looking statements. Further information regarding these risks, uncertainties and other factors is included in the Company’s most recent Annual Report on Form 20-F filed with the U.S. Securities and Exchange Commission (the “SEC”) and in the Company’s other filings with the SEC.*