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TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD Form 6-K May 17, 2006

1934 Act Registration No. 1-14700

SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 FORM 6-K

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

For the month of May 2006

Taiwan Semiconductor Manufacturing Company Ltd.

(Translation of Registrant s Name Into English)

No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Taiwan

(Address of Principal Executive Offices)

(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 <u>ü</u> 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, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82: _____.)

TSMC 65-Nanometer Process Moves to Volume Production

Foundry s First Production-ready Node Drives High Value, Low Risk and Easy Adoption **Hsinchu, Taiwan, R.O.C.** May 17, 2006 Taiwan Semiconductor Manufacturing Company (TSE: 2330, NYSE: TSM) today told a packed audience at its 2006 Technology Symposium that the company has fully qualified its 65-nanometer (nm) low power process technology. The announcement officially opens the doors for TSMC to deliver the production-ready 65nm process.

With several products already ramped and delivering production volumes, the new process provides higher levels of integration and performance improvement with groundbreaking power management technology for the lowest possible power usage. The new 65nm process is supported by TSMC s Design Support Ecosystem, featuring DFM-compliant 65nm products and services; by TSMC s Reference Flow 6.0 design methodology; and by a variety of process-proven TSMC and third-party libraries and IP.

TSMC again leads the industry in pushing Moore s law to the 65 nanometer generation, said Dr. Rick Tsai, President and Chief Executive Officer, TSMC. At 65nm geometries, we can produce highly integrated, very small and low power devices for every conceivable market. Producing on our advanced 300mm wafers, we can ramp customer s design to high volume quickly. It provides unprecedented opportunities for customers to further advance the leadership positions in their marketplaces.

TSMC s 65nm Nexsy^{§M} technology is the company s third-generation semiconductor process employing both copper interconnects and low-k dielectrics. It is a 9-layer metal process with core voltages of 1.0 or 1.2 volts, and I/O voltages of 1.8, 2.5 or 3.3 volts. The new technology offering supports a standard cell gate density twice that of TSMC s 90nm Nexsy^{§M} process. It also features very competitive 6T SRAM and 1T embedded DRAM memory cell sizes. In addition, this technology offering includes mixed signal and radio frequency functionality to support analog and wireless design, embedded high density memory to support integration of logic and memory, and electrical fuse to support customer encryption needs.

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About TSMC

TSMC is the world s largest dedicated semiconductor foundry, providing the industry s leading process technology and the foundry s largest portfolio of process-proven library, IP, design tools and reference flows. The company operates two advanced twelve-inch wafer fabs, five eight-inch fabs and one six-inch wafer fab. TSMC also has substantial capacity commitments at its wholly owned subsidiaries, WaferTech and TSMC (Shanghai), and its joint venture fab, SSMC. TSMC is the first foundry to provide 65nm production capabilities. Its corporate headquarters are in Hsinchu, Taiwan. For more information about TSMC please see http://www.tsmc.com.

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TSMC Spokesperson:

Ms. Lora Ho

Vice President and CFO Tel: 886-3-566-4602

TSMC Acting Spokesperson:

Mr. J.H. Tzeng

PR Department Manager, TSMC

Tel: 886-3-666-5028 Mobile: 0928-882607 Fax: 886-3-567-0121 E-Mail: jhtzeng@tsmc.com

For further information, please contact:

Richard C.Y. Chung

Media Relations Manager, TSMC

Tel: 886-3-666-5038 Mobile: 886-911-258751 Fax: 886-3-567-0121

E-Mail: cychung@tsmc.com

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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.

Taiwan Semiconductor Manufacturing

Company Ltd.

Date: May 17, 2006 By /s/ Lora Ho

Lora Ho

Vice President & Chief Financial Officer