

TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD  
Form 6-K  
March 10, 2010

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 March 2010**

**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       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: \_\_\_\_\_.)

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**TSMC February 2010 Sales Report**

**Hsinchu, Taiwan, R.O.C. March 10, 2010** TSMC (TWSE: 2330, NYSE: TSM) today announced its net sales for February 2010: on an unconsolidated basis, net sales were approximately NT\$29.2 billion, an increase of 0.1 percent from January 2010 and an increase of 153.8 percent over February 2009. Revenues for January through February 2010 totaled NT\$58.35 billion, an increase of 143.7 percent compared to the same period in 2009.

On a consolidated basis, net sales for February 2010 were approximately NT\$ 30.13 billion, about the same level as January 2010, and registered an increase of 147.5 percent over February 2009. Revenues for January through February 2010 totaled NT\$60.27 billion, an increase of 138.2 percent compared to the same period in 2009.

**TSMC Sales Report (Unconsolidated):**

|                          |        |        | (Unit: NT\$<br>million)<br>Increase<br>(Decrease) % |
|--------------------------|--------|--------|---|
| Net Sales                | 2010*  | 2009   |   |
| February                 | 29,195 | 11,504 | 153.8   |
| January through February | 58,352 | 23,940 | 143.7   |

\* *Year 2010  
figures have not  
been audited.*

**TSMC Sales Report (Consolidated):**

|                          |        |        | (Unit: NT\$<br>million)<br>Increase<br>(Decrease) % |
|--------------------------|--------|--------|---|
| Net Sales                | 2010*  | 2009   |   |
| February                 | 30,132 | 12,176 | 147.5   |
| January through February | 60,268 | 25,302 | 138.2   |

\* *Year 2010  
figures have not  
been audited.*

**TSMC Spokesperson:**

Ms. Lora Ho  
VP & CFO, TSMC  
Tel: 886-3-566-4602

**TSMC Acting Spokesperson:**

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**For Further Information:**

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*Taiwan Semiconductor Manufacturing Company Limited*  
*March 10, 2010*

*This is to report the changes or status of 1) sales volume, 2) funds lent to other parties, 3) endorsements and guarantees, and 4) financial derivative transactions for the period of Feb. 2010.*

1) *Sales volume (in NT\$ thousand)*

| <i>Period</i>    | <i>Items</i>     | <i>2010</i>       | <i>2009</i>       |
|------------------|------------------|-------------------|-------------------|
| <i>Feb.</i>      | <i>Net sales</i> | <i>29,195,234</i> | <i>11,503,819</i> |
| <i>Jan.-Feb.</i> | <i>Net sales</i> | <i>58,351,505</i> | <i>23,940,197</i> |

2) *Funds lent to other parties: None*

3) *Endorsements and guarantees: None*

4) *Financial derivative transactions (in NT\$ thousand)*

*TSMC*

*Hedging purpose (for assets / liabilities denominated in foreign currencies)*

|                                 |                       | <i>Futures</i> | <i>Forward</i>   | <i>Swap</i>       | <i>Single<br/>Option</i> |            | <i>Combined<br/>Option</i> |            | <i>Others</i> |
|---------------------------------|-----------------------|----------------|------------------|-------------------|--------------------------|------------|----------------------------|------------|---------------|
|                                 |                       |                |                  |                   | <i>Sell</i>              | <i>Buy</i> | <i>Sell</i>                | <i>Buy</i> |               |
| <i>Margin Payment</i>           |                       |                |                  |                   |                          |            |                            |            |               |
| <i>Premium Income (Expense)</i> |                       |                |                  |                   |                          |            |                            |            |               |
| <i>Outstanding</i>              | <i>Notional</i>       |                |                  |                   |                          |            |                            |            |               |
| <i>Contracts</i>                | <i>Amount</i>         |                | <i>3,764,390</i> | <i>34,265,938</i> |                          |            |                            |            |               |
|                                 | <i>Mark to Market</i> |                |                  |                   |                          |            |                            |            |               |
|                                 | <i>Profit/Loss</i>    |                | <i>23,183</i>    | <i>(106,184)</i>  |                          |            |                            |            |               |
|                                 | <i>Unrealized</i>     |                |                  |                   |                          |            |                            |            |               |
|                                 | <i>Profit/Loss</i>    |                | <i>23,183</i>    | <i>(287,926)</i>  |                          |            |                            |            |               |
|                                 | <i>Notional</i>       |                |                  |                   |                          |            |                            |            |               |
| <i>Expired Contracts</i>        | <i>Amount</i>         |                | <i>7,497,602</i> | <i>37,073,507</i> |                          |            |                            |            |               |
|                                 | <i>Realized</i>       |                |                  |                   |                          |            |                            |            |               |
|                                 | <i>Profit/Loss</i>    |                | <i>102,817</i>   | <i>189,795</i>    |                          |            |                            |            |               |

*TSMC s subsidiaries*

*Hedging purpose (for assets / liabilities denominated in foreign currencies)*

|                                 |                        | <i>Futures</i> | <i>Forward</i> | <i>Swap</i> | <i>Single Option</i> |            | <i>Combined<br/>Option</i> |            | <i>Others</i> |
|---------------------------------|------------------------|----------------|----------------|-------------|----------------------|------------|----------------------------|------------|---------------|
|                                 |                        |                |                |             | <i>Sell</i>          | <i>Buy</i> | <i>Sell</i>                | <i>Buy</i> |               |
| <i>Margin Payment</i>           |                        |                |                |             |                      |            |                            |            |               |
| <i>Premium Income (Expense)</i> |                        |                |                |             |                      |            |                            |            |               |
| <i>Outstanding</i>              |                        |                |                |             |                      |            |                            |            |               |
| <i>Contracts</i>                | <i>Notional Amount</i> |                | <i>272,750</i> |             |                      |            |                            |            |               |
|                                 | <i>Mark to Market</i>  |                |                |             |                      |            |                            |            |               |
|                                 | <i>Profit/Loss</i>     |                | <i>(42)</i>    |             |                      |            |                            |            |               |
|                                 | <i>Unrealized</i>      |                |                |             |                      |            |                            |            |               |
|                                 | <i>Profit/Loss</i>     |                | <i>(1,267)</i> |             |                      |            |                            |            |               |

|                          |                        |                |
|--------------------------|------------------------|----------------|
| <i>Expired Contracts</i> | <i>Notional Amount</i> | <i>137,983</i> |
|                          | <i>Realized</i>        |                |
|                          | <i>Profit/Loss</i>     | <i>(8)</i>     |

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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: March 10, 2010

By /s/ Lora Ho  
Lora Ho  
Vice President & Chief Financial  
Officer