

TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD

Form 6-K

April 30, 2003

**1934 Act Registration No. 1-14700**

**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 April 2003

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**Taiwan Semiconductor Manufacturing Company Ltd.**

(Translation of Registrant's Name into English)

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No.121 Park Avenue III

Science-Based Industrial Park

Hsin-chu, Taiwan

(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, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82:\_\_\_\_\_ .)

**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: April 29, 2003

By

/S/ Harvey Chang

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Harvey Chang

Senior Vice President & Chief Financial Officer

**Taiwan Semiconductor Manufacturing Company Ltd.**

**Financial Statements as of December 31, 2002 and 2001**

**Together with Independent Auditors Report**

English Translation of a Report Originally Issued in Chinese

Independent Auditors' Report

January 16, 2003

The Board of Directors and Shareholders

Taiwan Semiconductor Manufacturing Company Ltd.

We have audited the accompanying balance sheets of Taiwan Semiconductor Manufacturing Company Ltd. as of December 31, 2002 and 2001, and the related statements of income, changes in shareholders' equity and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with Regulations for Auditing of Financial Statements by Certified Public Accountants, and auditing standards generally accepted in the Republic of China. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Taiwan Semiconductor Manufacturing Company Ltd. as of December 31, 2002 and 2001, and the results of its operations and its cash flows for the years then ended in conformity with the Guidelines for Securities Issuers' Financial Reporting and accounting principles generally accepted in the Republic of China.

As disclosed in Note 3 to the financial statements, the Company adopted Statement of Financial Accounting Standards No. 30, "Accounting for Treasury Stock" (SFAS 30) on January 1, 2002. SFAS 30 requires a parent company to record stock held by its subsidiary as treasury stock. The adoption of SFAS 30 resulted in the decrease of long-term investments and simultaneous increase of the book value of treasury stock by NT\$1,923,492 thousand as of December 31, 2002. Furthermore, net income increased by NT\$25,909 thousand for the year ended December 31, 2002.

We have also audited the consolidated financial statements of Taiwan Semiconductor Manufacturing Company Ltd. as of and for the years ended December 31, 2002 and 2001, and have expressed a modified unqualified opinion and an unqualified opinion on such financial statements, respectively.

T N Soong & Co

An Associate Member Firm of Deloitte Touche Tohmatsu

Effective April 22, 2002

(Formerly a Member Firm of Andersen Worldwide, SC)

Taipei, Taiwan

The Republic of China

Notice to Readers

The accompanying financial statements are intended only to present the financial position, results of operations and cash flows in accordance with accounting principles and practices generally accepted in the Republic of China and not those of any other jurisdiction. The standards, procedures and practices to audit such financial statements are those generally accepted and applied in the Republic of China.

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## BALANCE SHEETS

December 31, 2002 and 2001

(In Thousand New Taiwan Dollars, Except Par Value)

ASSETS	2002		2001	
	Amount	%	Amount	%
<b>CURRENT ASSETS</b>				
Cash and cash equivalents (Notes 2 and 4)	\$ 61,656,795	16	\$ 33,403,706	10
Receivables from related parties (Note 16)	10,183,488	3	523,861	
Notes receivable	60,240		176,582	
Accounts receivable	9,495,447	3	19,957,636	6
Allowance for doubtful receivables (Note 2)	(929,864)		(1,100,492)	
Allowance for sales returns and others (Note 2)	(2,363,067)	(1)	(2,581,551)	(1)
Inventories net (Notes 2 and 5)	10,340,336	3	8,504,418	2
Deferred income tax assets (Notes 2 and 12)	3,320,000	1	2,347,000	1
Prepaid expenses and other current assets (Notes 2, 16 and 19)	2,984,030	1	2,421,566	1
<b>Total Current Assets</b>	<b>94,747,405</b>	<b>26</b>	<b>63,652,726</b>	<b>19</b>
<b>LONG-TERM INVESTMENTS (Notes 2, 3, 6 and 18)</b>	<b>34,978,495</b>	<b>9</b>	<b>32,869,391</b>	<b>10</b>
<b>PROPERTY, PLANT AND EQUIPMENT (Notes 2, 7 and 16)</b>				
Cost				
Buildings	68,488,180	18	52,527,184	16
Machinery and equipment	303,334,232	82	242,347,119	72
Office equipment	5,697,828	2	4,754,183	1
	377,520,240	102	299,628,486	89
Accumulated depreciation	(188,447,604)	(51)	(140,224,640)	(42)
Advance payments and construction in progress	28,119,627	8	56,095,396	17
<b>Net Property, Plant and Equipment</b>	<b>217,192,263</b>	<b>59</b>	<b>215,499,242</b>	<b>64</b>
<b>GOODWILL (Note 2)</b>	<b>2,612,926</b>	<b>1</b>	<b>2,961,317</b>	<b>1</b>
<b>OTHER ASSETS</b>				
Deferred charges net (Notes 2, 8 and 18)	9,792,490	3	3,239,723	1
Deferred income tax assets (Notes 2 and 12)	9,712,567	2	16,175,070	5





The accompanying notes are an integral part of the financial statements.

(With T N Soong & Co. report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## STATEMENTS OF INCOME

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars, Except Earnings Per Share)

	2002		2001	
	Amount	%	Amount	%
GROSS SALES (Notes 2 and 16)	\$ 164,805,296		\$ 128,563,819	
SALES RETURNS AND ALLOWANCES (Note 2)	(3,843,967)		(2,675,816)	
<b>NET SALES</b>	<b>160,961,329</b>	<b>100</b>	<b>125,888,003</b>	<b>100</b>
COST OF SALES (Note 16)	108,994,184	68	89,506,952	71
<b>GROSS PROFIT</b>	<b>51,967,145</b>	<b>32</b>	<b>36,381,051</b>	<b>29</b>
<b>OPERATING EXPENSES (Note 16)</b>				
Research and development	11,725,035	7	10,649,019	8
General and administrative	5,164,907	3	6,048,665	5
Marketing	900,897	1	2,341,081	2
<b>Total Operating Expenses</b>	<b>17,790,839</b>	<b>11</b>	<b>19,038,765</b>	<b>15</b>
<b>INCOME FROM OPERATIONS</b>	<b>34,176,306</b>	<b>21</b>	<b>17,342,286</b>	<b>14</b>
<b>NON-OPERATING INCOME</b>				
Interest (Note 2)	1,008,147	1	1,365,919	1
Gain on sales of property, plant and equipment (Note 2)	273,998		52,376	
Technical service income (Notes 16 and 18)	204,350		55,077	
Insurance compensation net			860,835	1
Amortization of premium income from option contracts net (Notes 2 and 19)			234,732	
Other (Note 16)	276,398		322,618	
<b>Total Non-operating Income</b>	<b>1,762,893</b>	<b>1</b>	<b>2,891,557</b>	<b>2</b>
<b>NON-OPERATING EXPENSES</b>				
Investment loss recognized by equity method net (Notes 2 and 6)	5,716,510	4	6,429,631	5
Interest (Notes 2, 7 and 19)	2,119,935	1	1,951,830	2

Amortization of premium expense from option contracts net (Notes 2 and 19)

419,513

(Forward)

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	2002		2001	
	Amount	%	Amount	%
Loss on sales of and provision for loss on property, plant and equipment (Note 2)	\$ 221,955		\$ 234,862	
Foreign exchange loss net (Notes 2 and 19)	120,568		695,620	
Casualty loss net (Note 2)	119,485			
Amortization of bond issuance cost (Note 2)	18,523		12,504	
Loss on sales of long-term investments (Note 2)	2,403		102,978	
Other	87,852		147,703	
<b>Total Non-operating Expenses</b>	<b>8,826,744</b>	<b>5</b>	<b>9,575,128</b>	<b>7</b>
<b>INCOME BEFORE INCOME TAX</b>	<b>27,112,455</b>	<b>17</b>	<b>10,658,715</b>	<b>9</b>
INCOME TAX BENEFIT (EXPENSE) (Notes 2 and 12)	(5,502,164)	(4)	3,824,459	3
<b>NET INCOME</b>	<b>\$ 21,610,291</b>	<b>13</b>	<b>\$ 14,483,174</b>	<b>12</b>

	Before	After	Before	After
	Income	Income	Income	Income
	Tax	Tax	Tax	Tax
<b>EARNINGS PER SHARE (Note 15)</b>				
Basic earnings per share	\$ 1.43	\$ 1.14	\$ 0.55	\$ 0.75
Diluted earnings per share	\$ 1.43	\$ 1.14	\$ 0.55	\$ 0.75

The pro forma net income and earnings per share, on the assumption that the stock of parent company held by its subsidiary is treated as an investment instead of the treasury stock, are shown as follows (Note 14):

	Before	After
	Income	Income
	Tax	Tax
<b>NET INCOME</b>	<b>\$ 27,086,546</b>	<b>\$ 21,584,382</b>
<b>EARNINGS PER SHARE</b>		
Basic earnings per share	\$ 1.43	\$ 1.13

Diluted earnings per share	\$ 1.43	\$ 1.13
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The accompanying notes are an integral part of the financial statements.

(With T N Soong & Co. report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars)

	CAPITAL STOCK ISSUED				CAPITAL SURPLUS (Notes 2 and 13)							
	Preferred Stock		Common Stock		From Merger	Additional Paid-in Capital	From Long-term Investments	Excess on Foreign Bond Investment	Gain on Sales of Properties	Donation	Treasury Stock	Total
	Shares	Amount	Shares	Amount								
	(Thousand)		(Thousand)									
BALANCE, JANUARY 1, 2001	1,300,000	\$ 13,000,000	11,689,365	\$ 116,893,646	\$ 22,329,129	\$ 23,172,550	\$ 246,219	\$ 9,410,632	\$ 127,236	\$ 55	\$	\$ 55,285,821
Appropriations of prior year's earnings												
Legal reserve												
Special reserve												
Bonus to employees' stock			467,443	4,674,426								
Cash dividends paid for preferred stocks												
Stock dividends 40%			4,675,746	46,757,459								
Remuneration to directors and supervisors												
Net income in 2001												
Reclassification of the accumulated deficits from the merged company					1,803,168							1,803,168
Gain on sales of property, plant and equipment									39,282			39,282
Gain on sales of property, plant and equipment from investees							162					162
Reversal of the unrealized loss on long-term investments												

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Translation adjustments											
BALANCE, DECEMBER 31, 2001	1,300,000	13,000,000	16,832,554	168,325,531	24,132,297	23,172,550	246,381	9,410,632	166,518	55	57,128,433
Appropriations of prior year s earnings											
Legal reserve											
Special reserve											
Bonus to employees stock			107,078	1,070,783							
Cash dividends paid for preferred stocks											
Stock dividends 10%			1,683,255	16,832,553							
Remuneration to directors and supervisors											
Net income in 2002											
Transfer of the capital surplus from gain on sales of property, plant and equipment to retained earnings								(166,518)			(166,518)
Transfer of the capital surplus from gain on sales of property, plant and equipment of investees to retained earnings							(162)				(162)
Unrealized loss on long-term investments from subsidiaries											
Translation adjustments											
Reclassification of stocks of a parent company held by subsidiaries from long-term investments to treasury stock											
Capital surplus resulted from sales of treasury stock										43,036	43,036
BALANCE, DECEMBER 31, 2002	1,300,000	\$ 13,000,000	18,622,887	\$ 186,228,867	\$ 24,132,297	\$ 23,172,550	\$ 246,219	\$ 9,410,632	\$ 55	\$ 43,036	\$ 57,004,789

RETAINED EARNINGS (Note 13)

UNREALIZED CUMULATIVE TREASURY LOSS ON

TOTAL

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	Legal	Special	Unappropriated	Total	LONG-TERM TRANSLATION		STOCK	SHAREHOLDERS
	Reserve	Reserve	Earnings		INVESTMENT ADJUSTMENTS		(Notes 2, 3 and 14)	EQUITY
					(Note 2)	(Note 2)		
BALANCE, JANUARY 1, 2001	\$ 10,689,323	\$ 1,091,003	\$ 65,143,847	\$ 76,924,173	(\$ 71,564)	(\$ 278,377)	\$	\$ 261,753,699
Appropriations of prior year's earnings								
Legal reserve	6,490,744		(6,490,744)					
Special reserve		(741,062)	741,062					
Bonus to employees' stock			(4,674,426)	(4,674,426)				
Cash dividends paid for preferred stocks			(41,137)	(41,137)				(41,137)
Stock dividends 40%			(46,757,459)	(46,757,459)				
Remuneration to directors and supervisors			(584,303)	(584,303)				(584,303)
Net income in 2001			14,483,174	14,483,174				14,483,174
Reclassification of the accumulated deficits from the merged company			(1,803,168)	(1,803,168)				
Gain on sales of property, plant and equipment			(39,282)	(39,282)				
Gain on sales of property, plant and equipment from investees			(162)	(162)				
Reversal of the unrealized loss on long-term investments					71,564			71,564
Translation adjustments						1,507,078		1,507,078
BALANCE, DECEMBER 31, 2001	17,180,067	349,941	19,977,402	37,507,410		1,228,701		277,190,075
Appropriations of prior year's earnings								
Legal reserve	1,448,317		(1,448,317)					
Special reserve		(349,941)	349,941					
Bonus to employees' stock			(1,070,783)	(1,070,783)				
Cash dividends paid for preferred stocks			(455,000)	(455,000)				(455,000)
Stock dividends 10%			(16,832,553)	(16,832,553)				
Remuneration to directors and supervisors			(133,848)	(133,848)				(133,848)
Net income in 2002			21,610,291	21,610,291				21,610,291
Transfer of the capital surplus from gain on sales of property, plant and equipment to retained earnings	12,724		153,794	166,518				
Transfer of the capital surplus from gain on sales of property, plant and equipment of investees to retained earnings			162	162				
Unrealized loss on long-term investments from subsidiaries					(194,283)			(194,283)
Translation adjustments						(283,572)		(283,572)
Reclassification of stocks of a parent company held by subsidiaries from long-term investments to treasury stock							(1,923,492)	(1,923,492)
Capital surplus resulted from sales of treasury stock								43,036



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BALANCE, DECEMBER 31, 2002	\$ 18,641,108	\$	\$ 22,151,089	\$ 40,792,197	(\$ 194,283)	\$ 945,129	(\$ 1,923,492)	\$ 295,853,207
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The accompanying notes are an integral part of the financial statements.

(With T N Soong & Co. report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## STATEMENTS OF CASH FLOWS

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars)

	<u>2002</u>	<u>2001</u>
<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>		
Net income	\$ 21,610,291	\$ 14,483,174
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	57,621,462	48,875,754
Deferred income taxes	5,489,503	(3,840,777)
Investment loss recognized by equity method net	5,716,510	6,429,631
Loss on sales of long-term investments net	2,403	102,978
Loss (gain) on sales of and provision for loss on property, plant and equipment net	(52,043)	182,486
Accrued pension cost	355,689	345,318
Allowance for doubtful receivables	(170,628)	153,758
Allowance for sales returns and others	(218,484)	377,384
Changes in operation assets and liabilities:		
Decrease (increase) in:		
Receivable from related parties	(9,659,627)	470,954
Notes receivable	116,342	(51,407)
Accounts receivable net	10,462,189	10,377,678
Inventories net	(1,835,918)	2,463,517
Prepaid expenses and other current assets	(148,120)	359,342
Forward exchange contract receivable	(199,609)	49,480
Increase (decrease) in:		
Payable to related parties	384,392	(2,263,972)
Accounts payable	3,725,340	(6,866,059)
Forward exchange contracts payable	(379,579)	218,165
Accrued expenses and other current liabilities	1,467,988	(201,096)
<b>Net Cash Provided by Operating Activities</b>	<b>94,288,101</b>	<b>71,666,308</b>
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>		
Acquisitions of:		
Property, plant and equipment	(54,443,595)	(68,002,448)
Long-term investments	(10,187,730)	(4,563,682)
Proceeds from sales of:		
Property, plant and equipment	494,805	298,231
Long-term investments	1,402	162,334
Increase in deferred charges	(5,724,583)	(1,465,703)
Decrease in refundable deposits	229,443	195,073

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Net Cash Used in Investing Activities	(69,630,258)	(73,376,195)
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(Forward)

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	<u>2002</u>	<u>2001</u>
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>		
Proceeds from issuance of bonds	\$ 10,000,000	\$
Payments on lease obligation		(50,000)
Increase (decrease) in guarantee deposits	(5,815,906)	124,593
Remuneration paid to directors and supervisors	(133,848)	(584,303)
Cash dividends paid for preferred stocks	(455,000)	(41,137)
	<u>3,595,246</u>	<u>(550,847)</u>
<b>NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>28,253,089</b>	<b>(2,260,734)</b>
<b>CASH AND CASH EQUIVALENTS, BEGINNING OF THE YEAR</b>	<b>33,403,706</b>	<b>35,664,440</b>
	<u>33,403,706</u>	<u>35,664,440</u>
<b>CASH AND CASH EQUIVALENTS, END OF THE YEAR</b>	<b>\$ 61,656,795</b>	<b>\$ 33,403,706</b>
	<u>61,656,795</u>	<u>33,403,706</u>
<b>SUPPLEMENTAL INFORMATION</b>		
Interest paid (excluding capitalized interest of NT\$165,857 thousand and NT\$207,297 thousand in 2002 and 2001, respectively)	\$ 1,771,682	\$ 1,980,399
	<u>1,771,682</u>	<u>1,980,399</u>
Income tax paid	\$ 12,661	\$ 16,318
	<u>12,661</u>	<u>16,318</u>
<b>Noncash investing and financing activities:</b>		
Reclassification of stocks of a parent company held by subsidiaries from long-term investments to treasury stocks	\$ 1,923,492	\$
	<u>1,923,492</u>	<u></u>
Effect of exchange rate changes on cash and cash equivalents	(\$ 142,438)	\$ 1,258,395
	<u>(142,438)</u>	<u>1,258,395</u>
Current portion of bonds	\$ 4,000,000	\$ 5,000,000
	<u>4,000,000</u>	<u>5,000,000</u>
<b>Cash paid for acquisitions of property, plant and equipment:</b>		
Total acquisitions	\$ 56,080,659	\$ 55,977,367
Decrease (increase) in payables to contractors and equipment suppliers	(1,637,064)	12,025,081
	<u>(1,637,064)</u>	<u>12,025,081</u>
	<u>54,443,595</u>	<u>68,002,448</u>
<b>Cash paid for acquisitions of deferred charges:</b>		
Total acquisition	\$ 10,401,176	\$ 1,465,703
Other long-term payable (including current portion)	(4,676,593)	
	<u>(4,676,593)</u>	<u></u>
	<u>5,724,583</u>	<u>1,465,703</u>

The accompanying notes are an integral part of the financial statements.

(With T N Soong & Co. report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

NOTES TO FINANCIAL STATEMENTS

(Amounts in Thousand New Taiwan Dollars, Unless Specified Otherwise)

1. GENERAL

Taiwan Semiconductor Manufacturing Company Ltd. (the Company or TSMC), a Republic of China corporation, was incorporated as a venture among the Government of the Republic of China, acting through the Development Fund of the Executive Yuan; Philips Electronics N.V. and certain of its affiliates (Philips); and certain other private investors. In September 1994, its shares were listed on the Taiwan Stock Exchange. In October 8, 1997, TSMC listed some of its shares of stock on the New York Stock Exchange in the form of American Depositary Shares.

TSMC is engaged mainly in the manufacturing, selling, packaging, and testing and designing of integrated circuits and other semiconductor devices, and the manufacturing of masks.

2. SIGNIFICANT ACCOUNTING POLICIES

Cash and cash equivalents

Government bonds acquired under agreements that provide for their repurchase within less than three months from date of purchase are classified as cash equivalents.

Allowance for doubtful receivables

Allowance for doubtful receivables are provided based on a review of the collectibility of accounts receivables.

Sales and sales returns and allowances

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Sales are recognized when titles of products and risks of ownerships are transferred to customers, primarily upon shipment. Allowance and related provisions for sales returns and others are estimated based on historical experience. Such provisions are deducted from sales in the year the products are sold and the estimated related costs are deducted from cost of sales.

### Inventories

Inventories are stated at the lower of cost (standard cost and adjusted to approximate weighted-average cost at the end of each period) or market value. Market value represents net realizable value for finished goods and work in process, and replacement value for raw materials, supplies and spare parts.

Long-term investments

Investments in shares of stock of companies wherein the Company exercises significant influence on the operating and financial policy decisions are accounted for using the equity method. The Company's proportionate share in the net income or net loss of investee companies are recognized as components of the Investment income/loss recognized by equity method net account. The Company adopted Statements of Financial Accounting Standards No. 30, Accounting for Treasury Stock (SFAS 30) on January 1, 2002. SFAS 30 requires a parent company to record stock held by its subsidiary as treasury stock. The recorded value of treasury stock is based upon the carrying values of the short/long-term investments on the subsidiaries' books as of January 1, 2002.

When the Company subscribes to additional investee shares at a percentage different from its existing equity interest, the resulting carrying amount of the investment in equity investee differs from the amount of Company's proportionate share in the investee's net equity. The Company records such difference as an adjustment to capital surplus as well as the long-term investments accounts. In the event an investee has an accumulated deficit, it will record an offset to its capital surplus, excluding the reserve for asset revaluation, through retained earnings. The Company will also record a corresponding entry equivalent to its proportionate share of the investee capital surplus, excluding the reserve for asset revaluation, that was generated subsequent to any acquisition of equity interest in the investee. If an investee's functional currency is a foreign currency, cumulative translation adjustments would result from the process of translating the investee's financial statements into the functional currency of the Company.

Other stock investments are accounted for using the cost method. Cash dividends are recognized as income in the year received but are accounted for as reduction in the carrying values of the long-term investments if the dividends are received in the same year that the related investments are acquired. Stock dividends are recognized neither as investment income nor increase of long-term investment but recorded only as an increase in the number of shares held. An allowance is recognized for any decline in the market value of investments using quoted market prices with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the market value. The carrying values of investments with no quoted market price are reduced to reflect another than temporary decline in their values with the related impairment loss charged to income.

Investments in foreign mutual funds are stated at the lower of aggregate cost or net asset value (NAV). An allowance is recognized when the cost of the funds are lower than their net asset values, with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the net asset value.

The costs of investments sold are determined using the weighted-average method.

If an investee company has an unrealized loss on a long-term investment evaluated using the lower-of-cost-or-market method, the Company recognizes a corresponding unrealized loss in proportion to its equity interest and records the amount as a component of its own shareholders' equity.



Gain or loss on transactions with investee companies wherein the Company owned at least 20% of the outstanding common stock but less than a controlling interest are deferred in proportion to the ownership percentage until realized through a transaction with a third party. The entire amount of the gains or losses on sales to majority-owned subsidiaries are deferred until such gains or losses are realized through the subsequent sale of the related products to third parties. Gains or losses from sales by investee companies to the Company are deferred in proportion to the ownership percentage until realized through transactions with third parties.

#### Property, plant and equipment, assets leased to others and idle assets

Property, plant and equipment and assets leased to others are stated at cost less accumulated depreciation. Idle assets are stated at the lower of book value or net realized value. Significant additions, renewals, betterments and interest expense incurred during the construction period are capitalized. Maintenance and repairs are expensed in the period incurred. Property, plant and equipment covered by agreements qualifying as capital leases are carried at the lower of the present value of future minimum rent payments, or the market value of the property at the inception date of the lease. The lessee's periodic rent payment includes the purchase price of the leased property and the interest expense.

Depreciation is computed using the straight-line method over these estimated service lives: Buildings 10 to 20 years; machinery and equipment 5 years; and office equipment 3 to 5 years.

Upon sale or disposal of property, plant and equipment, the related cost and accumulated depreciation are removed from the accounts, and any gain or loss is credited or charged to income in the period of disposal.

#### Goodwill

Goodwill represents the excess of fair market value of identifiable net assets acquired and consideration paid in connection with a business combination. The amount is amortized using the straight-line method over the estimated useful life of 10 years.

#### Deferred charges

Deferred charges consist of software and system design costs, technology know-how, bond issuance costs, and technology license fees. The amounts are amortized as follows: Software and system design costs 3 years, technology know-how 5 years; bond issuance costs the term of the bonds; technology license fee the shorter of the estimated life of the technology or the term of the technology transfer contract.

#### Pension costs

Net periodic pension costs are recorded on the basis of actuarial calculations. Unrecognized net transition obligation and unrecognized net gain/loss are amortized over 25 years.

Deferred gain on sales and leaseback

The gain on the sale of property by the Company that it simultaneously leased back is deferred. This deferred gain on sales and leaseback transactions is amortized as follows: (a) operating leases adjustment of rental expenses over the term of the leases and (b) capital leases adjustment of depreciation expenses over the estimated useful life or term of the lease; whichever is shorter.

Casualty loss

Casualty loss consists of the accrued loss caused by the earthquake on March 31, 2002 less the estimated insurance compensation.

Income tax

The Company uses an inter-period tax allocation method for income tax. Deferred income tax assets and liabilities are recognized for the tax effects of temporary differences, unused tax credits, and operating loss carry forwards. Valuation allowances are provided to the extent, if any, that it is more likely than not that deferred income tax assets will not be realized. A deferred tax asset or liability is, according to the classification of its related asset or liability, classified as current or non-current. However, if a deferred tax asset or liability does not relate to an asset or liability in the financial statements, then it is classified as current or non-current based on the expected length of time before it is realized.

Any tax credit arising from the purchase of machinery, equipment and technology, research and development expenditures, personnel training, investments in important technology-based enterprise are recognized using the current method.

Adjustments of prior years' tax liabilities are added to or deducted from the current year's tax provision.

As of January 1, 1998, income taxes on unappropriated earnings of 10% are expensed in the year of shareholder approval which is usually the year subsequent to the year incurred.

Derivative financial instruments

The Company enters into foreign currency forward contracts to manage currency exposures in cash flow and in foreign currency-denominated assets and liabilities. The differences in the New Taiwan dollar amounts translated using the current rate and the amounts translated using the contracted forward rates are amortized over the terms of the forward contracts using the straight-line method. At the balance sheet dates, the receivables or payables arising from forward contracts are restated using the prevailing current rate and the resulting differences are recognized in income. Also, the receivables and payables related to the forward contract are netted with the resulting amount presented as either an asset or liability.

The Company enters into interest rate swap transactions to manage exposures from changes in interest rates on existing liabilities. These transactions are accounted for on an accrual basis, in which the cash settlement receivable or payable is recorded as an adjustment to interest income or expense.

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The notional amount of foreign currency option contracts entered into for hedging purposes are not recognized as an asset or liability on the contract dates. The premiums paid or received for the call or put options are amortized to income on a straight-line basis over the term of the related contract.

Foreign-currency transactions

Foreign-currency transactions are recorded in New Taiwan dollars at the current rate of exchange in effect when the transaction occurs. Gains or losses derived from foreign currency transactions or monetary assets and liabilities denominated in a foreign currency are recognized in current operations. At year-end, foreign-currency assets and liabilities are revalued at the prevailing exchange rate with the resulting gain or loss recognized in current operations.

## 3. NEW ACCOUNTING PRONOUNCEMENTS

In accordance with the Statement of Financial Accounting Standards No. 30, Accounting for Treasury Stock (SFAS 30) and other relevant regulations from Securities and Futures Commission (SFC), the Company is required to reclassify its common stock held by subsidiaries from short/long-term investments to treasury stock. The reclassification is based on the carrying value of NT\$2,115,695 thousand as recorded by the Company's subsidiaries as of January 1, 2002. The adoption of SFAS 30 resulted in the decrease of long-term investments and the increase of treasury stock by NT\$1,923,492 thousand as of December 31, 2002, and an increase in net income for the year ended December 31, 2002 by NT\$25,909 thousand.

## 4. CASH AND CASH EQUIVALENTS

	2002	2001
Cash and bank deposits	\$ 58,917,928	\$ 31,678,047
Government bonds acquired under repurchase agreements	2,738,867	1,725,659
	<u>\$ 61,656,795</u>	<u>\$ 33,403,706</u>

## 5. INVENTORIES NET

	2002	2001
Finished goods	\$ 3,610,547	\$ 1,618,635
Work in process	7,227,129	6,685,094
Raw materials	389,164	521,680
Supplies and spare parts	693,526	870,780
	<u>11,920,366</u>	<u>9,696,189</u>
Less allowance for losses	(1,580,030)	(1,191,771)
	<u>\$ 10,340,336</u>	<u>\$ 8,504,418</u>

## 6. LONG-TERM INVESTMENTS

	2002		2001	
	Carrying Value	% of Ownership	Carrying Value	% of Ownership
<b>Shares of stock</b>				
Equity method				
TSMC International Investment	\$ 22,265,157	100	\$ 19,987,814	100
TSMC Partners	3,753,733	100	3,032,376	100
Systems on Silicon Manufacturing Company Pte Ltd. (SSMC)	3,136,115	32	2,907,967	32
Vanguard International Semiconductor (VIS)	2,415,297	25	3,377,526	25
Emerging Alliance Fund	767,239	99	741,617	99
Ya-Shin Technology	341,250	100		
TSMC North America	173,601	100	786,062	100
TSMC Japan	94,258	100	80,156	100
Chi Cherng Investment	41,894	36	156,694	25
Hsin Ruey Investment	39,815	36	157,352	25
TSMC Europe	13,670	100	10,147	100
Kung Cherng Investment			177,812	25
Cherng Huei Investment			166,639	25
Po Cherng Investment			164,724	25
Chi Hsin Investment			158,252	25
	<u>33,042,029</u>		<u>31,905,138</u>	
Prepayment for subscribed stocks VIS	849,360			
	<u>849,360</u>			
Cost method				
Traded				
Amkor Technology	280,748		280,748	
Monolithic System Tech.	104,289	2		
Taiwan Mask Corp.	32,129	2	32,129	2
Non-traded				
United Technology	193,584	11	193,584	11
Shin-Etsu Handotai Taiwan Company Ltd.	105,000	7	105,000	7
Hon Tung Venture Capital	83,916	10	150,000	10
W.K. Technology Fund IV	50,000	2	50,000	2
	<u>849,666</u>		<u>811,461</u>	
<b>Funds</b>				
Horizon Ventures	195,452		125,701	
Crimson Asia Capital	41,988		27,091	
	<u>237,440</u>		<u>152,792</u>	
	<u>\$ 34,978,495</u>		<u>\$ 32,869,391</u>	



On January 8, 2003, the Company's investee company, VIS issued 600,000 thousand shares of common stock at a discounted price of NT\$7 per share. The Company prepaid NT\$849,360 thousand at the end of 2002 for the share subscription and paid an additional NT\$766,815 thousand in January 2003. In this round of equity offering, the Company purchased a total of 230,882 thousand shares of VIS stocks. As a result, its ownership in VIS increased from 25% to 28%.

The Company's investees, Hsin Ruey Investment, Chi Hsin Investment and Kung Cherng Investment were merged at the end of October 2002, with Hsin Ruey Investment as the surviving company. In addition, the Company's investees, Chi Cherng Investment, Cherng Huei Investment and Po Cherng Investment were also merged at the end of October 2002. Chi Cherng Investment is the surviving company of the merger. The Company's ownership is approximately 36% in Hsin Ruey Investment and approximately 36% in Chi Cherng Investment subsequent to the merger.

The Company established Ya Shin Technology ( Ya Shin ) in November 2002 and subsequently signed a merger agreement with Global UniChip Corp. ( Global UniChip ) in December 2002. The merger was effective on January 4, 2003 and Global UniChip is the surviving company. The Company holds 52% of Global UniChips' shares after the completion of the merger.

The carrying value of the investments accounted for using the equity method and the related investment gains or losses were determined based on the audited financial statements of the investees in the respective year. The investment gains or losses of the investee companies consisted of the following:

	<u>2002</u>	<u>2001</u>
TSMC International Investment	(\$ 4,714,203)	(\$ 4,855,844)
SSMC	(1,155,076)	(1,722,080)
VIS	(821,771)	(2,236,940)
TSMC Partners	993,292	2,357,405
Others	(18,752)	27,828
	<u>(\$ 5,716,510)</u>	<u>(\$ 6,429,631)</u>

The market values and net asset values of the long-term investments is as follows:

	<u>2002</u>	<u>2001</u>
Market value of traded stocks	\$ 4,792,108	\$ 7,055,888
Equity in the net assets of non-traded stocks	33,880,022	29,124,386
Net asset value of funds	237,440	152,792



## 7. PROPERTY, PLANT AND EQUIPMENT

Accumulated depreciation consisted of the following:

	<u>2002</u>	<u>2001</u>
Buildings	\$ 22,289,909	\$ 15,181,445
Machinery and equipment	163,208,908	122,659,129
Office equipment	2,948,787	2,384,066
	<u>\$ 188,447,604</u>	<u>\$ 140,224,640</u>

The status of construction of the Company's manufacturing facilities at December 31, 2002 is as follows:

<u>Manufacturing Plant</u>	<u>Estimated</u>	<u>Accumulated</u>	<u>Expected or</u> <u>Actual</u>
	<u>Costs</u>	<u>Expenditures</u>	<u>Date of</u> <u>Starting</u> <u>Operations</u>
Fab 6	\$ 93,932,000	\$ 87,054,700	March 2000
Fab 12 Phase 1	80,318,400	47,095,400	March 2002
Fab 14 Phase 1	30,411,000	22,169,900	June 2003

Interest expense (before deducting capitalized amounts of NT\$165,857 thousand in 2002 and NT\$207,297 thousand in 2001) for the years ended December 31, 2002 and 2001 were NT\$2,285,792 thousand and NT\$2,159,127 thousand, respectively. The interest rate used for purposes of calculating the capitalized amounts was 5.283% in 2002 and 2001.

## 8. DEFERRED CHARGES NET

	<u>2002</u>	<u>2001</u>
Technology license fees	\$ 6,519,286	\$ 996,578
Software and system design costs	3,167,366	2,073,752
Technology know-how	49,500	103,500
Bond issuance costs	45,908	33,091
Other	10,430	32,802
	<u>\$ 9,792,490</u>	<u>\$ 3,239,723</u>

9. BONDS

	<u>2002</u>	<u>2001</u>
<b>Domestic unsecured bonds:</b>		
Issued on March 4, 1998 and payable on March 4, 2003 in one lump sum payment, 7.71% annual interest payable semi-annually	\$ 4,000,000	\$ 4,000,000
Issued on October 21, 1999 and payable on October 21, 2002 and 2004 in two equal payments, 5.67% and 5.95% annual interest payable annually, respectively	5,000,000	10,000,000

(Forward)

	2002	2001
Issued December 4 to 15, 2000 and payable in December 2005 and 2007 in two equal payments, 5.25% and 5.36% annual interest payable annually, respectively	\$ 15,000,000	\$ 15,000,000
Issued January 10 to 24, 2002 and payable in January 2007, 2009 and 2012 in three equal payments, 2.6%, 2.75% and 3% annual interest payable annually, respectively	15,000,000	
	<u>\$ 39,000,000</u>	<u>\$ 29,000,000</u>

Future principal payments under the Company's bonds arrangements as of December 31, 2002 are as follows:

Year of Repayment	Amount
2003	\$ 4,000,000
2004	5,000,000
2005	10,500,000
2006	
2007	7,000,000
2008 and thereafter	12,500,000
	<u>\$ 39,000,000</u>

#### 10. OTHER LONG-TERM PAYABLES

The Company entered into several license arrangements for certain semiconductor patents. The future payments to be paid under the agreements as of December 31, 2002 are as follows:

Year	Amount
2003	\$ 1,157,299
2004	1,226,805
2005	987,009
2006	469,189
2007	486,566
2008 and thereafter	1,112,096
	<u>5,438,964</u>
Less current portion	(1,157,299)
	<u>\$ 4,281,665</u>

#### 11. PENSION PLAN

The Company has a pension plan for all regular employees that provide benefits based on length of service and average monthly salary for the six month period prior to retirement.

The Company contributes an amount equal to 2% of salaries every month to a Pension Fund (the Fund). The Fund is administered by a pension fund monitoring committee (the Committee) and deposited in the Committee's name in the Central Trust of China.

The changes in the fund and accrued pension cost are summarized as follows:

a. Components of pension cost

	2002	2001
Service cost	\$ 442,294	\$ 417,967
Interest cost	121,552	95,920
Projected return on plan assets	(45,102)	(43,968)
Amortization	1,681	8,300
Net pension cost	<u>\$ 520,425</u>	<u>\$ 478,219</u>

b. Reconciliation of the fund status of the plan and accrued pension cost

	2002	2001
Benefit obligation		
Vested benefit obligation	\$ 21,294	\$ 739
Nonvested benefit obligation	1,604,027	1,024,525
Accumulated benefit obligation	<u>1,625,321</u>	<u>1,025,264</u>
Additional benefits based on future salaries	1,300,712	1,407,014
Projected benefit obligation	<u>2,926,033</u>	<u>2,432,278</u>
Fair value of plan assets	(1,014,086)	(835,583)
Funded status	<u>1,911,947</u>	<u>1,596,695</u>
Unrecognized net transitional obligation	(149,391)	(157,691)
Unrecognized net gain	445,759	415,849
Accrued pension liabilities	2,227	
Accrued pension cost	<u>\$ 2,210,542</u>	<u>\$ 1,854,853</u>

c. Actuarial assumptions

Discount rate used in determining present values	3.75%	5.0%
Future salary increase rate	3.00%	5.0%
Expected rate of return on plan assets	3.75%	5.0%

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d. Contributions to pension fund	\$ 164,720	\$ 131,894
	<u>                    </u>	<u>                    </u>
e. Payments from pension fund	\$ 5,360	\$
	<u>                    </u>	<u>                    </u>

12. INCOME TAX BENEFIT (EXPENSE)

a. A reconciliation of income tax expense on income before income tax at the statutory rate and current income tax expense before tax credits is shown below:

	<u>2002</u>	<u>2001</u>
Income tax expense based on income before income tax at statutory rate of 25%	(\$ 6,778,114)	(\$ 2,664,679)
Tax-exempt income	2,526,500	1,089,000
Temporary and permanent differences	(452,684)	(993,679)
	<u>(\$ 4,704,298)</u>	<u>(\$ 2,569,358)</u>

b. Income tax benefit (expense) consists of:

	<u>2002</u>	<u>2001</u>
Current income tax expense before tax credits	(\$ 4,704,298)	(\$ 2,569,358)
Additional 10% on unappropriated earnings	(162,938)	(319,000)
Income tax credits	4,867,236	2,888,358
Other income tax	(12,661)	(16,318)
	<u>(12,661)</u>	<u>(16,318)</u>
Income tax paid in current year	(12,661)	(16,318)
Net change in deferred income tax assets (liabilities)		
Investment tax credits	2,510,192	144,925
Temporary differences	(1,072,086)	(1,874,945)
Valuation allowance	(6,927,609)	5,570,797
	<u>(\$ 5,502,164)</u>	<u>\$ 3,824,459</u>

c. Deferred income tax assets (liabilities) consist of the following:

	<u>2002</u>	<u>2001</u>
<b>Current</b>		
Investment tax credits	\$ 3,320,000	\$ 2,347,000
<b>Noncurrent</b>		
Investment tax credits	\$ 23,247,653	\$ 21,710,461
Temporary differences	(3,565,841)	(2,493,755)
Valuation allowance	(9,969,245)	(3,041,636)
	<u>\$ 9,712,567</u>	<u>\$ 16,175,070</u>

d. Integrated income tax information:

The balances of the imputation credit account (ICA) as of December 31, 2002 and 2001 were NT\$6,650 thousand and NT\$9,365 thousand, respectively.

The expected and actual credible ratio for 2002 and 2001 was 0.03% and 0.04%, respectively.



The imputation credit allocated to each shareholder shall be based on the balance in the ICA on the date of distribution of dividends; thus the expected creditable ratio for 2002 may be adjusted according to the difference between the expected and actual imputation credit allowed under the regulation.

e. The unappropriated retained earnings as of December 31, 2002 and 2001 included earnings generated through December 31, 1997 was NT\$0 and NT\$4,827 thousand, respectively.

f. As of December 31, 2002, investment tax credits consisted of the following:

Regulation	Items	Total Creditable	Remaining Creditable	Expiry
		Amounts	Amounts	Year
Statute for Upgrading Industries	Purchase of machinery and equipment	\$ 4,237,050	\$	2002
		4,767,347	4,767,347	2003
		8,180,857	8,180,857	2004
		3,110,906	3,110,906	2005
		5,335,558	2,775,029	2006
		<u>\$ 25,631,718</u>	<u>\$ 18,834,139</u>	
Statute for Upgrading Industries	Research and development expenditures	\$ 562,158	\$	2002
		671,546	671,546	2003
		1,974,320	1,974,320	2004
		3,111,472	3,111,472	2005
		1,540,000	1,540,000	2006
		<u>\$ 7,859,496</u>	<u>\$ 7,297,338</u>	
Statute for Upgrading Industries	Personnel training	\$ 8,822	\$	2002
		16,104	16,104	2003
		43,264	43,264	2004
		28,886	28,886	2005
		<u>\$ 97,076</u>	<u>\$ 88,254</u>	
Statute for Upgrading Industries	Reputation setting	\$ 10,133	\$	2002
		319	319	2003
		<u>\$ 10,452</u>	<u>\$ 319</u>	
Statute for Upgrading Industries	Investments in important technology based enterprises	\$ 2,878	\$	2002
		5,420	5,420	2003
		201,372	201,372	2004
		138,864	138,864	2005
		1,947	1,947	2006

	\$ 350,481	\$ 347,603
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- g. Income from the following expansion and construction of the Company's manufacturing plants is exempt from income tax:

	<b>Tax-Exemption Period</b>
Expansion of Fab 1 and Fab 2 modules A and B, Fab 3 and Fab 4, and construction of Fab 5	1999 to 2002
Construction of Fab 6	2001 to 2004

- h. The tax authorities have examined income tax returns of the Company through 1999. However, the Company is contesting the assessment of the tax authority for 1992, 1993, 1996 and 1997.

### 13. SHAREHOLDERS' EQUITY

The Company has issued 369,019 thousand American Depositary Shares (ADS) on the New York Stock Exchange as of December 31, 2002. The number of common shares represented by the ADSs is 1,845,097 thousand shares (one ADS represents five common shares).

Capital surplus can only be used to offset a deficit under the ROC Company Law. However, the components of capital surplus generated from donations (donated capital) and the excess of the issue price over the par value of capital stock (including the stock issued for new capital, mergers, and the purchase of treasury stock) can be transferred to capital as stock dividends.

The Company's Articles of Incorporation provide that the following shall be appropriated from annual net income (less any deficit):

- a. 10% legal reserve;
- b. Special reserve in accordance with relevant laws or regulations;
- c. Remuneration to directors and supervisors and bonus to employees equal to 0.3% and at least 1% of the remainder, respectively. Individuals who receive bonus to employees may include employees of affiliated companies and are approved by the board of directors or a representative of the board of directors.
- d. Dividends to holders of preferred shares equal to a 3.5% annual rate, based on the period which the preferred shares have been outstanding;
- e. The appropriation of the remaining balance after the above shall be decided at the shareholders' meeting;

Dividends are distributed in cash, shares of common stock or a combination of cash and common stock. Distribution of profits are preferably made in the form of stock dividend. The total of cash dividends paid in any given year should not exceed 50% of total dividends distributed.

These appropriations of net income shall be approved by the shareholders in the following year and given effect in the financial statements of that year.

The bonus to employees and the remuneration to directors and supervisors appropriated from the earnings of 2001 were approved in the shareholders' meeting on May 7, 2002:

	Amounts	Shares (Thousand)
Bonus to employees in stock	\$ 1,070,783	107,078
Remuneration to directors and supervisors in cash	133,848	
	<u>\$ 1,204,631</u>	

The shares distributed as a bonus to employees represent 0.64% of the Company's total outstanding common shares as of December 31, 2001.

The above appropriation of the earnings is consistent with the resolution of the meeting of board of directors dated on March 26, 2002. If the above distributable earnings were both paid in cash, and charged against income of 2001, the basic EPS after income tax for the year ended December 31, 2001 would be decreased from NT\$0.83 to NT\$0.76.

As of January 16, 2003, the appropriation of the earnings of 2002 has not been yet resolved by the board of directors.

The above information associated with the appropriation of bonus to employees and remuneration to directors and supervisors is available at Market Observation System website.

The aforementioned appropriation for legal reserve shall be made until the reserve equals the aggregate par value of the Company's outstanding capital stock. The reserve can only be used to offset a deficit; or distribute as stock dividend when the balance is 50% of the aggregate par value of the outstanding capital stock of the Company up to the half amount of the reserve balance.

A special reserve equivalent to the debit balance of any account shown in the shareholder's equity section of the balance sheet (except for the recorded cost of treasury stock held by subsidiaries), other than the deficit, shall be made from unappropriated retained earnings pursuant to existing regulations promulgated by the Securities and Futures Commission. The special reserve is allowed to be appropriated when the debit balance of such accounts are reversed.

The gain on sales or disposal of property, plant and equipment generated prior to 2000, less the applicable income tax, was reclassified to capital surplus as of each year-end. A gain in the amount of NT\$39,282 thousand, less applicable income tax, was recognized and transferred to the capital surplus at the end of 2001 prior to the amended regulations. To comply with the amended regulations, the aforementioned capital surplus was transferred to retained earnings upon the approval of the shareholders' meeting on May 7, 2002. The shareholders also approved the accumulated capital surplus of NT\$127,236 thousand generated from gains prior to 2000 to be transferred to retained earnings, after appropriating the required 10% legal reserve.

Under the Integrated Income Tax System that became effective on January 1, 1998, ROC resident shareholders are allowed a tax credit for the income tax paid by the Company on earnings generated as of January 1, 1998. An Imputation Credit Account (ICA) is maintained by the Company for such income tax and the tax credit allocated to each shareholder.

On June 25, 2002, the SFC approved the Company's Employee Stock Option Plan (the Plan). The Plan provides qualified employees with 100,000 thousand units of option rights with each unit representing 1 common share of stock. The option rights are valid for 10 years and exercisable at certain percentages subsequent to the second anniversary of issuance. Under the terms of the Plan, stock options are granted at an exercise price equal to the closing price of TSMC's common shares listed on Taiwan stock exchange at the date of grant. As of December 31, 2002, there were 19,726 thousand shares granted at a weighted average price of approximately NT\$53.

The Company issued 1,300,000 thousand shares of unlisted Series A preferred stock to certain investors on November 29, 2000. The following are the rights of the preferred shareholders and other terms and conditions:

Preferred shareholders

- a. are entitled to receive cumulative cash dividends at an annual rate of 3.5%.
- b. are not entitled to receive any common stock dividends (whether declared out of unappropriated earnings or capital surplus).
- c. have priority over the holders of common shares to the assets of the Company available for distribution to shareholders upon liquidation or dissolution, however, the preemptive rights to the assets shall not exceed the issue value of the shares.
- d. have voting rights similar to that of the holders of common shares.
- e. have no right to convert their shares into common shares. The preferred shares are to be redeemed within thirty months from their issuance. The preferred shareholders have the aforementioned rights and the Company's related obligations remain the same until the preferred shares are redeemed by the Company.

14. TREASURY STOCK (COMMON STOCK)

Purpose of Purchase	(Shares in Thousand)			
	Beginning Shares	Increase	Decrease	Ending Shares
<u>Year ended December 31, 2002</u>				
Reclassification of stocks held by subsidiaries from short/long-term investment to treasury stocks	39,270	3,818	1,087	42,001

On January 1, 2002, the Company reclassified its capital stock held by its subsidiaries with book value of NT\$2,115,695 thousand from long-term investments to treasury stock. Proceeds from the sale of treasury stock for the year ended December 31, 2002 were NT\$96,501 thousand. As of December 31, 2002, the book value and market value of the treasury stock was NT\$1,923,492 thousand and NT\$2,048,164 thousand, respectively. Capital stock held by a subsidiary as an investment is recorded as treasury stock with the holder having the same rights

as other common shareholders.



## 15. EARNINGS PER SHARE

Earnings per share (EPS) is computed as follows:

	Amounts (Numerator)		Share (Denominator) (Thousand)	EPS (Dollars)	
	Before Income Tax	After Income Tax		Before Income Tax	After Income Tax
<b>December 31, 2002</b>					
Income	\$ 27,112,455	\$ 21,610,291			
Less preferred stock dividends	(455,000)	(455,000)			
<b>Basic earnings per share</b>					
Income available to common shareholders	\$ 26,657,455	\$ 21,155,291	18,580,700	\$ 1.43	\$ 1.14
<b>Diluted earnings per share</b>					
Income available to common shareholders	\$ 26,657,455	\$ 21,155,291	18,580,700	\$ 1.43	\$ 1.14
<b>December 31, 2001</b>					
Income	\$ 10,658,715	\$ 14,483,174			
Less preferred stock dividends	(455,000)	(455,000)			
<b>Basic earnings per share</b>					
Income available to common shareholders	\$ 10,203,715	\$ 14,028,174	18,622,887	\$ 0.55	\$ 0.75
<b>Diluted earnings per share</b>					
Income available to common shareholders	\$ 10,203,715	\$ 14,028,174	18,622,887	\$ 0.55	\$ 0.75

The potential common shares from the employee stock option plan (see Note 13) are not included in the denominator of the diluted earning-per-share computation as such shares are not dilutive using the treasury stock method under the Statement of Financial Accounting Standards No. 24, Earning Per Share .

The average number of shares outstanding for EPS calculation has been adjusted retroactively for issuance of stock dividends and stock bonuses. The retroactive adjustment caused the basic EPS before income tax and after income tax for the year ended December 31, 2001 to decrease from NT\$0.61 and NT\$0.83 to NT\$0.55 and NT\$0.75, respectively.

## 16. RELATED PARTY TRANSACTIONS

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The Company engages in business transactions with the following related parties:

- a. Industrial Technology Research Institute (ITRI); the Chairman of the Company is a director of ITRI
- b. Philips Electronics N.V. (Philips); a major shareholder

c. Subsidiaries

TSMC North America

TSMC Europe

TSMC Japan

d. Investees

VIS

SSMC

e. Indirect subsidiaries

TSMC Technology

WAFERTECH, LLC.

The transactions with the aforementioned parties, in addition to those disclosed in other notes, are summarized as follows:

	2002		2001	
	Amount	%	Amount	%
<b>For the years</b>				
<b>Sales</b>				
TSMC North America	\$ 94,433,401	57	\$	
Philips and its affiliates	2,909,008	2	2,389,257	2
ITRI	94,409		114,546	
VIS	92,119		1,177,094	1
SSMC	7,018		48,972	
WAFERTECH, LLC	1,152		3,111	
	<u>\$ 97,537,107</u>	<u>59</u>	<u>\$ 3,732,980</u>	<u>3</u>
<b>Purchase</b>				
WAFERTECH, LLC	9,955,154	41	6,797,817	37
VIS	3,469,198	14	3,801,975	22
SSMC	2,751,297	11	42,984	
	<u>\$ 16,175,649</u>	<u>66</u>	<u>\$ 10,642,776</u>	<u>59</u>

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Rental expense ITRI	\$ 40,401	3	\$ 161,604	11
<b>Manufacturing expenses</b>				
Technical assistance fee Philips	\$ 2,849,517	100	\$ 2,418,276	100

(Forward)

	2002		2001	
	Amount	%	Amount	%
Marketing expenses				
Commission				
TSMC Japan	\$ 208,226	23	\$ 194,696	8
TSMC Europe	132,086	15	124,384	5
TSMC North America			1,028,725	42
Service Charge				
TSMC North America			118,648	5
	<u>\$ 340,312</u>	<u>38</u>	<u>\$ 1,466,453</u>	<u>60</u>
Sales of property, plant and equipment				
VIS	\$		\$ 268,871	79
WAFERTECH, LLC			24,645	7
	<u>\$</u>	<u></u>	<u>\$ 293,516</u>	<u>86</u>
Non-operating income				
SSMC (technical service income mainly)	\$ 126,061	3	\$ 95,284	3
WAFERTECH, LLC	1,635		4,612	
VIS			467	
	<u>\$ 127,696</u>	<u>3</u>	<u>\$ 100,363</u>	<u>3</u>
<u>At December 31</u>				
Receivables				
TSMC North America	\$ 9,739,236	96	\$	
Philips and its affiliates	352,706	3	116,499	22
VIS	58,301	1	320,179	61
ITRI	22,974		37,383	7
SSMC	5,678		20,671	4
Others	4,593		29,129	6
	<u>\$ 10,183,488</u>	<u>100</u>	<u>\$ 523,861</u>	<u>100</u>
Prepaid expense and other current asset				
Prepaid rent ITRI	\$		\$ 42,664	2
Payables				
Philips and its affiliates	\$ 730,847	30	\$ 499,331	24
VIS	653,876	26	548,472	26
WAFERTECH, LLC	617,751	25	817,616	39
SSMC	391,426	16	470	
TSMC Europe	29,520	1	54,601	3
TSMC Japan	19,643	1	15,355	1
TSMC North America	14,511	1	136,443	7
TSMC Technology	9,424		10,318	
	<u>\$ 2,466,998</u>	<u>100</u>	<u>\$ 2,082,606</u>	<u>100</u>

Refundable deposits	VIS	\$	514,846	95	\$	750,788	97
			<u>          </u>	<u>      </u>		<u>          </u>	<u>      </u>

Sales to related parties are based on normal selling prices and collection terms. The payables to WAFERTECH represent the purchase of finished goods. The purchase prices of finished goods were calculated in accordance with the related contractual agreements.

The Company has authorized its exclusive distributor, TSMC North America, to promote semiconductor products in North America and South America starting January 2002. The selling prices to TSMC North America are approximately 99% of those to third parties and are invoiced with thirty day payment terms, which is not significantly different from third parties.

#### 17. SIGNIFICANT LONG-TERM OPERATING LEASES

The Company leases land from the Science-Based Industrial Park Administration where its Fab 2 through Fab 14 manufacturing facilities reside. These agreements expire on various dates from March 2008 to December 2020 and have annual rent payments aggregating NT\$225,576 thousand. The agreements can be renewed upon their expiration.

Future remaining lease payments are as follows:

<u>Year</u>	<u>Amount</u>
2003	\$ 225,576
2004	225,576
2005	225,576
2006	225,576
2007	225,576
2008 and thereafter	1,742,413
	<u>\$ 2,870,293</u>

#### 18. SIGNIFICANT COMMITMENTS AND CONTINGENCY AS OF DECEMBER 31, 2002

The Company's commitments and contingency as of December 31, 2002 are as follows:

- a. Under a Technical Cooperation Agreement with Philips, as amended on May 12, 1997, the Company shall pay technical assistance fees as a percentage of net sales, as defined in the agreement, of certain products. The agreement shall remain in force up to July 8, 2007 and thereafter be automatically renewed for successive periods of three years. Under the amended agreement, the fee is subject to deduction by the amounts the Company pays to any third party for settling any licensing/infringement issue after the first five-year period of the amended agreement, provided that the fee after reduction will not be below a certain percentage of the net selling price.
- b. Subject to certain equity ownership and notification requirements, Philips and its affiliates can avail themselves each year of up to 30% of the Company's production capacity.

- c. Under a technical cooperation agreement with ITRI, the Company shall reserve and allocate up to 35% of certain of its production capacity for use by the Ministry of Economic Affairs (MOEA) or any other party designated by the MOEA.



- d. Under several foundry agreements, the Company shall allocate a portion of its production output for sale to certain major customers from whom guarantee deposits of US\$39,810 thousand had been received as of December 31, 2002.
- e. Under a Shareholders Agreement entered into with Philips and EDB Investments Pte Ltd. on March 30, 1999, the parties formed a joint venture company to be named Systems on Silicon Manufacturing Company Pte Ltd. (SSMC) for the purpose of constructing an integrated circuit foundry in Singapore, and allow the Company to invest in 32% of SSMC's capital. The Company and Philips committed to buy a specific percentage of the production capacity of SSMC. If any party defaults on the agreement and the capacity utilization of SSMC falls below a specific percentage of its total capacity, the defaulting party should compensate SSMC for all related unavoidable costs.
- f. The Company provides of technical services to SSMC under a Technical Cooperation Agreement (the Agreement) entered into on May 12, 1999. The Company receives compensation for such services computed at a specific percentage of net selling prices of specific products sold by SSMC. The Agreement remains in force for ten years and is automatically renewed for successive periods of five years unless pre-terminated by either party under certain conditions.
- g. The Company provided guarantee on loans amounting to US\$200,000 thousand, US\$40,000 thousand and US\$440,000 thousand for TSMC Development, Inc., TSMC- North America and WAFERTECH, LLC, respectively.
- h. Under a Technology Transfer Agreement with National Semiconductor Corporation (National) entered into on June 27, 2000, the Company shall receive payments for license of certain technology to National. The agreement will remain in force for ten years. After the initial expiration date, this agreement will be automatically renewed for successive periods of two years unless pre-terminated by either party under certain conditions. In January 2003, the agreement was amended such that National will discontinue making payments under the original terms and the Company will discontinue transferring any additional technology. The Company granted National the option to request additional technology transfers under the same terms and conditions of the original agreement through January 2008.
- i. The Company entered into a Manufacturing Agreement with Vanguard International Semiconductor Corp. (VIS). VIS agrees to reserve certain production capacity for the Company to manufacture certain logic devices or other technologies required by the Company's customers at selling prices as agreed by the parties. The Company paid NT\$1,200,000 thousand to VIS as security bond. VIS shall return portions of the bond without any interest to the Company upon the purchase of wafers by the Company. The contract will remain in force for five years.
- j. Starting from 2001, the Company entered into several license arrangements for certain semiconductor patents. The terms of the contracts range from five to ten years with payments to be paid in the form of royalties over the term of the related contracts. The Company has recorded the related amounts as a liability and a deferred charge to be amortized to cost of sales on a straight-line basis over the shorter of the estimated life of the technology or the term of the contract.
- k. Unused letter of credits as of December 31, 2002 were NT\$6,480 thousand, ¥51,000 thousand, Euro 520 thousand and SG\$85 thousand.

l. As of December 31, 2002, unused credit lines for short-term loans were NT\$7,930,000 thousand and US\$337,500 thousand.

19. ADDITIONAL DISCLOSURES

Following are the additional disclosures required by the SFC for TSMC and investees:

- a. Financing provided: Please see Table 1 attached;
- b. Endorsement/guarantee provided: Please see Table 2 attached;
- c. Marketable securities held: Please see Table 3 attached;
- d. Marketable securities acquired and disposed of at costs or prices of at least NT\$100 million or 20% of the paid-in capital: Please see Table 4 attached;
- e. Acquisition of individual real estate at costs of at least NT\$100 million or 20% of the paid-in capital: Please see Table 5 attached;
- f. Disposal of individual real estate at prices of at least NT\$100 million or 20% of the paid-in capital: None;
- g. Total purchase from or sale to related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Please see Table 6 attached;
- h. Receivable from related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Please see Table 7 attached;
- i. Names, locations, and related information of investees of which the Company exercises significant influence: Please see Table 8 attached;
- j. Financial instrument transactions:
  - 1) Derivative financial instruments

The relevant information for the derivative financial instruments entered into by the Company is as follows:

- a) Forward exchange contracts as of December 31, 2002

<u>Currency</u>	Contract	Fair Value	<u>Settlement Date</u>	Maturity
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		Amount (Thousand)	<u>(Thousand)</u>			<u>(Thousand)</u>
Sell	USD	\$ 715,000	NT\$ 24,874,483	Jan. 2, 2003	Feb. 24, 2003	NT\$ 24,886,765
Buy	EUR	89,000	NT\$ 3,231,707	Jan. 15, 2003	Mar. 14, 2003	NT\$ 3,234,260
Buy	JPY	¥ 4,274,850	NT\$ 1,249,159	Jan. 6, 2003	Jan. 15, 2003	NT\$ 1,250,394

As of December 31, 2002, receivables from forward exchange contracts (shown in the balance sheets as part of other current assets account) aggregate to NT\$199,609 thousand, and payables from forward exchange contracts (shown in the balance sheets as part of other current liabilities account) aggregate to NT\$17,538 thousand. The net exchange gain for the year ended December 31, 2002 was NT\$1,522,383 thousand.

The net assets or liabilities hedged by the above forward exchange contracts are as follows:

	<b>Amount</b>
	<b>(Thousand)</b>
Accounts receivable	US\$ 487,905
Accounts payable	JP¥ 4,287,733
Accounts payable	EUR 49,026

b) Interest rate swaps

The Company entered into interest rate swap contracts to hedge exposures from rising interest rates on its floating rate long-term loans. Interest expense on these transactions for the year ended December 31, 2002 were NT\$261,107 thousand. Outstanding contracts as of December 31, 2002 were as follows:

	<b>Contract Date</b>	<b>Period</b>	<b>Amount</b>
			<b>(Thousand)</b>
April 28, 1998		May 21, 1998 May 21, 2003	NT\$ 2,000,000
April 29, 1998		May 21, 1998 May 21, 2003	NT\$ 1,000,000
June 26, 1998		June 26, 1998 June 26, 2003	NT\$ 1,000,000
June 26, 1998		July 6, 1998 July 6, 2003	NT\$ 1,000,000
July 1, 1999		July 1, 1999 June 28, 2004	US\$ 11,429

c) Option contracts

The Company entered into foreign currency option contracts to hedge risks of exchange rate fluctuations arising from its anticipated U.S. dollar cash receipts on export sales and its European and Yen currency obligations for purchases of machinery and equipment.

Outstanding option contracts as of December 31, 2002 were as follows:

Type	Contract	Currency	Contract			Strike Price	Maturity
			Amount (Thousand)	Carrying Value	Fair Value (Thousand)		
European	Call option written	USD	\$ 230,000	\$	(\$ 404,884)	32.78~33.22(US\$/NT\$)	Jan. 9, 2003
European	Call option written	USD	\$ 10,000	(\$	3,652)	119.2(US\$/JPY)	Jan. 30, 2003 Feb. 25, 2003

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European	Put option written	EUR	10,000	(\$ 1,596)	1.017(US\$/EUR)	Feb. 27, 2003 Jan. 30, 2003 Feb. 27, 2003
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For the year ended December 31, 2002, the Company recognized premium income of NT\$ 228,030 thousand and premium expense of NT\$647,543 thousand.

d) Transaction risk

- i) Credit risk. The banks, which are the counter-parties to the foregoing derivative financial instruments, are reputable financial institutions. Management believes its exposures related to the potential default by those counter-parties are low.

- ii) Market price risk. All derivative financial instruments are intended as hedges for fluctuations in currency exchange rates on the Company's foreign currency denominated receivables or payables and interest rate fluctuations on its floating rate long-term loans. Gains or losses from forward exchange contracts are likely to be offset by gains or losses from the hedged receivables and payables. Interest rate risks are also controlled as the expected cost of capital is fixed. Thus, market price risks are believed to be minimal.
- iii) Liquidity and cash flow requirements. The cash flow requirements on forward contracts are limited to the net differences between the current exchange rates and the contracted forward rates at the date of settlement. The cash flow requirements for interest rate swap contracts is limited to the amounts payable arising from the differences in the rates. In addition, options may not be exercised in the event the strike price is higher than the related market price at the exercise date. Management believes that the foregoing cash flow requirements are not material.

## 2) Fair value of financial instruments

	2002		2001	
	Carrying		Carrying	
	Amount	Fair Value	Amount	Fair Value
<b>Non-derivative financial instruments</b>				
Assets				
Cash and cash equivalents	\$ 61,656,795	\$ 61,656,795	\$ 33,403,706	\$ 33,403,706
Receivables from related parties	10,183,488	10,183,488	523,861	523,861
Notes and accounts receivable	9,555,687	9,555,687	20,134,218	20,134,218
Long-term investments	34,978,495	38,909,570	32,869,391	36,333,066
Refundable deposits	543,469	543,469	772,912	772,912
Liabilities				
Payables to related parties	2,466,998	2,466,998	2,082,606	2,082,606
Accounts payable	4,849,234	4,849,234	1,123,894	1,123,894
Payables to contractors and equipment suppliers	14,004,383	14,004,383	12,367,319	12,367,319
Bonds (includes current portion)	39,000,000	39,762,245	29,000,000	29,703,063
Other long-term payables	4,281,665	4,281,665		
Guarantee deposits	1,395,066	1,395,066	7,210,972	7,210,972
<b>Derivative financial instruments</b>				
Forward exchange contracts (buy)	38,369	26,089		
Forward exchange contracts (sell)	143,702	139,913	(397,117)	(427,225)
Interest rate swaps	(23,994)	(164,342)	26,969	(343,088)
Option	(50,273)	(410,132)	(39,500)	(252,833)

Fair values of financial instruments were determined as follows:

- a) Short-term financial instruments carrying values.
- b) Long-term investments market value for traded companies and net equity value for non-trade companies.

- c) Refundable deposits and guarantee deposits carrying values.
- d) Long-term liabilities based on forecasted cash flows discounted at interest rates of similar long-term liabilities. Bonds payable is discounted to present value. Fair values of other long-term liabilities are also their carrying values as they use floating interest rate.
- e) Derivative financial instruments based on quotations from banks.

The fair values of non-financial instruments were not included in the fair values disclosed above. Accordingly, the sum of the fair values of the financial instruments listed above does not represent the fair value of the Company as a whole.

3) Investment in Mainland China:

The Company filed an investment project with the Investment Commission of MOEA to establish a foundry in mainland China. As of January 16, 2003, the foregoing project has not been approved by the authority.

20. SEGMENT FINANCIAL INFORMATION

a. Gross export sales

Area	2002	2001
America	\$ 86,045,821	\$ 63,896,732
Asia and others	49,916,588	23,874,375
Europe	9,216,429	7,523,873
	\$ 145,178,838	\$ 95,294,980

The export sales information is based on amounts billed to customers with the region.

b. Gross sales to major customer

Customers with sales exceeding 10% of the total sales are as follows:

Customers	2002		2001	
	Amount	%	Amount	%

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A Customer	\$ 32,769,054	20	\$ 21,789,769	17
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The sales to A customer in 2002 were completed through TSMC North America, due to the Company authorized its exclusive distributor through TSMC North America, to promote semiconductor products in North America and South America starting January 2002.



TABLE 1

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

FINANCING PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

No.	Financing Name	Counter-party	Financial Statement Account	Maximum	Ending	Interest Rate	Financing Reasons	Reasons for	Collateral		Financing Limit for Each Borrowing Company	Financing
				Balance for the Period	Balance				Allowance for	Item Value		Amount Limits
				(US\$ in Thousand)	(US\$ in Thousand)		(Note 1)	Short-term financing	Bad Debt			(US\$ in Thousand)
1	TSMC-BVI	TSMC Technology Inc.	Other receivables	\$ 536,372 (US\$ 15,434)	\$ 536,372 ( 15,434) US\$	4.25%	2	Operating capital	\$	\$	N/A	\$ 34,334,852  ( 987,968) US\$  (Note 2)

Note 1: The No. 2 represents short-term financing.

Note 2: Not exceeding the issued capital of the Company.

TABLE 2

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## ENDORSEMENT/GUARANTEE PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Endorsement/ Guarantee No.	Endorsement/ Guarantee Provider	Counter-party		Limits on Each Counter-party's Endorsement/ Guarantee Amounts	Maximum Balance for the Period (US\$ in Thousand)	Ending Balance (US\$ in Thousand)	Value of Collateral Property, Plant and Equipment (Note 3)	Ratio of Accumulated Amount of Collateral to Net Equity of the Latest Financial Statement	Maximum Collateral/Guarantee Amounts Allowable (Note 1)
		Name	Nature of Relationship (Note 2)						
0	TSMC	TSMC Development Inc.	3	(Note 4)	\$ 9,313,804	\$ 6,950,600	\$ 2.37%	\$ 59,768,660	
		TSMC North America	2		( US\$ 268,000)	( US\$ 200,000)			
					1,390,120	1,390,120	0.47%		
					( US\$ 40,000)	( US\$ 40,000)			
		WAFERTECH, LLC	3		15,291,320	15,291,320	5.21%		
					( US\$ 440,000)	( US\$ 440,000)			

Note 1: 30% of the issued capital of the Company.

Note 2: The No. 2 represents a subsidiary in which TSMC holds directly over 50% of the equity interest.  
The No. 3 represents an investee in which TSMC holds directly and indirectly over 50% of the equity interest.

Note 3: Promissory notes for collateral.

Note 4: Not exceeding 10% of the issued capital of the Company, and also limited to the issued capital of the transaction entity, unless otherwise approved by Board of directors.

TABLE 3

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## MARKETABLE SECURITIES HELD

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	December 31, 2002				Note
				Shares (Thousand)	Carrying Value (US\$ in Thousand)	Percentage of Ownership	Market Value or Net Asset Value (US\$ in Thousand)	
TSMC	<u>Stock</u>							
	TSMC North America	Subsidiary	Long-term investment	11,000	\$ 173,601	100	\$ 921,883	The treasury stocks in amounts of NT\$748,282 thousand are deducted from the carrying value.
	TSMC Europe	Subsidiary	Long-term investment		13,670	100	13,670	
	TSMC Japan	Subsidiary	Long-term investment	6	94,258	100	94,258	
	VIS	Investee	Long-term investment	556,133	2,415,297	25	4,326,719	The carrying value does not include prepayment for subscribed stock of NT\$849,360 thousand.
	TSMC-BVI	Subsidiary	Long-term investment	987,968	22,265,157	100	22,265,157	
	Chi Cherng Investment	Investee	Long-term investment		41,894	36	501,179	The treasury stocks in amounts of NT\$459,285 thousand are deducted from the carrying value.
	Hsin Ruey Investment	Investee	Long-term investment		39,815	36	500,048	The treasury stocks in amounts of NT\$460,233 thousand are deducted from the carrying value.
	TSMC Partners	Subsidiary	Long-term investment	300	3,753,733	100	3,940,495	The treasury stocks in amounts of NT\$255,692 thousand are deducted from the carrying value.
	SSMC	Investee	Long-term investment	382	3,136,115	32	3,136,115	

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Emerging Alliance Fund	Subsidiary	Long-term investment		767,239	99	767,239
Taiwan Mask Corp.		Long-term investment	8,794	32,129	2	160,574
United Technology Co., Ltd.		Long-term investment	16,783	193,584	11	280,931
Shin-Etsu Handotai Taiwan Co., Ltd.		Long-term investment	10,500	105,000	7	137,355
W.K. Technology Fund IV		Long-term investment	5,000	50,000	2	59,866
Ya Shin Technology	Subsidiary	Long-term investment	34,125	341,250	100	341,250
Hon Tung Ventures Capital		Long-term investment	8,392	83,916	10	71,216
Amkor Technology		Long-term investment	505	280,748		89,866
Monolithic System Tech.		Long-term investment	470	104,289	2	214,949

(Forward)

								December 31, 2002	
			Carrying Value		Market Value or Net Asset Value				
Type and Name of Marketable Security			Relationship with the Company	Financial Statement Account	Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)	Note
	Crimson Asia Capital			Long-term investment	N/A	\$ 41,988	N/A	\$ 41,988	
	Horizon Ventures			Long-term investment	N/A	195,452	N/A	195,452	
North	<u>Stock</u>								
	TSMC	Parent company		Long-term investment	12,692	748,282		610,434	
erng	<u>Stock</u>								
ent	TSMC	Parent company		Short-term investment	12,738	459,285		612,636	
	<u>Certificate</u>								
	Hsin Ruey Investment	Major shareholder		Long-term investment		900,109	64	900,109	
ey	<u>Stock</u>								
ent	TSMC	Parent company		Short-term investment	12,762	460,233		613,782	
	<u>Certificate</u>								
	Chi Cherng Investment	Major shareholder		Long-term investment		902,137	64	902,137	
BVI	<u>Stock</u>								
	InveStar Semiconductor Development Fund Inc.	Subsidiary		Long-term investment	45,000	US\$ 44,634	97	US\$ 44,634	
	InveStar Semiconductor Development Fund (II) Inc.	Subsidiary		Long-term investment	51,300	US\$ 43,179	97	US\$ 43,179	
	TSMC Development Inc.	Subsidiary		Long-term investment	1	US\$ 307,094	100	US\$ 307,094	
	TSMC Technology Inc.	Subsidiary		Long-term investment	1	US\$ 2,321	100	US\$ 2,321	
	3DFX Interactive Inc.			Long-term investment	68				
	<u>Stock</u>								
	VIS Associates, Inc.	Subsidiary		Long-term investment	41,070	1,193,891	100	1,193,891	
	PowerChip Semiconductor, Inc.	Investee		Long-term investment	191,671	2,100,716	7	2,100,716	
	Etron Technology, Inc.	Investee		Long-term investment	4,859	101,839	2	101,839	
	Walsin Technology, Inc.	Investee		Long-term investment	34,551	302,559	8	302,559	
	MEGIC Corporation	Investee		Long-term investment	16,500	177,000	9	156,819	
	Form Factor, Inc.	Investee		Long-term investment	267	64,360	1	64,360	The amount is shown
									carrying value.
	United Technology Co., Ltd.	Investee		Long-term investment	3,357	38,716	2	56,206	
	<u>Stock</u>								
tes	VIS Investment Holding, Inc.	Subsidiary		Long-term investment	63	US\$ 397	100	US\$ 397	
	<u>Equity</u>								
	Silicon Valley Equity Fund			Long-term investment		US\$ 7,317	34	US\$ 7,386	
	Silicon Valley Equity Fund II			Long-term investment		US\$ 5,355	14	US\$ 5,355	

(Forward)

									December 31, 2002	
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Shares (Thousand)	Carrying Value		Percentage of Ownership	Market Value or Net Asset Value		Note
					(US\$ in Thousand)			(US\$ in Thousand)		
	<u>Equity certificate</u>									
	ABN AMRO Bank		Long-term investment	3,648	US\$	817		US\$	817	
	<u>Fund</u>									
	Grand Palace Trust		Long-term investment		US\$	2,719	100	US\$	2,719	
VIS Investment Holding, Inc.	<u>Stock</u>									
	VIS Micro, Inc.	Subsidiary	Long-term investment	200	US\$	279	100	US\$	279	
TSMC Development, Inc.	<u>Stock</u>									
	WAFERTECH, LLC	Subsidiary	Long-term investment		US\$	326,609	99	US\$	326,609	
TSMC Partners	<u>ADR</u>									
	TSMC	Parent company	Short-term investment	762	US\$	7,357		US\$	6,080	
InveStar Semiconductor Development Fund Inc.	<u>Stock</u>									
	Marvell Technology Group Ltd.		Short-term investment	3,413	US\$	3,350		US\$	69,181	
	Silicon Laboratories		Short-term investment	9	US\$	287		US\$	202	
	WGRD		Short-term investment	104	US\$	625		US\$	635	
	Programmable Microelectronics, (Taiwan) Inc.		Long-term investment	1,580	US\$	1,566	4	US\$	1,566	
	Divio		Long-term investment	30	US\$	3		US\$	3	
	Global Test Corp.		Long-term investment	13,268	US\$	5,176	12	US\$	5,176	
	Chipstrate Technologies, Inc.		Long-term investment	6,660	US\$	300	1	US\$	300	
	Richtek Technology Corporation		Long-term investment	1,023	US\$	346	1	US\$	346	
	Advanced Power Electronics, Corp.		Long-term investment	2,750	US\$	1,345	3	US\$	1,345	
	<u>Preferred stock</u>									
	Integrated Memory Logic, Inc.		Long-term investment	1,831	US\$	1,809		US\$	1,809	
	Divio		Long-term investment	667	US\$	500		US\$	500	
	SiRF Technology, Inc.		Long-term investment	306	US\$	1,333		US\$	1,333	
	Capella Microsystems, Inc.		Long-term investment	300	US\$	481		US\$	481	
	Sensory, Inc.		Long-term investment	1,404	US\$	625		US\$	625	
	Equator Technologies, Inc.		Long-term investment	300	US\$	258		US\$	258	
	LightSpeed Semiconductor Corporation		Long-term investment	2,252	US\$	1,339		US\$	1,339	
	Tropian, Inc.		Long-term investment	1,758	US\$	2,334		US\$	2,334	
	Sonics, Inc.		Long-term investment	2,686	US\$	3,530		US\$	3,530	
	Atheros, Inc.		Long-term investment	1,607	US\$	3,593		US\$	3,593	
	NanoAmp Solutions, Inc.		Long-term investment	541	US\$	853		US\$	853	
	Formfactor, Inc.		Long-term investment	267	US\$	2,000		US\$	2,000	
	Monolithic Power Systems, Inc.		Long-term investment	2,521	US\$	2,000		US\$	2,000	

(Forward)

December 31, 2002							
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value		Percentage of Ownership	Market Value or Net Asset Value
				Shares (Thousand)	(US\$ in Thousand)		(US\$ in Thousand)
	Memsic, Inc.		Long-term investment	2,727	US\$ 1,500		US\$ 1,500
	Reflectivity, Inc.		Long-term investment	1,064	US\$ 1,192		US\$ 1,192
	Signia Technologies, Inc.		Long-term investment	3,000	US\$ 300		US\$ 300
	Match Lab, Inc.		Long-term investment	1,875	US\$ 1,500		US\$ 1,500
	HINT Corporation		Long-term investment	1,000	US\$ 1,000		US\$ 1,000
	Ordius, Inc. (Creosys, Inc.)		Long-term investment	1,500	US\$ 450		US\$ 450
	Incentia Design Systems, Inc.		Long-term investment	286	US\$ 500		US\$ 500
	IP Unity		Long-term investment	1,008	US\$ 1,636		US\$ 1,636
reStar Semiconductor	<u>Stock</u>						
Development Fund (II) Inc.	WGRD		Short-term investment	105	US\$ 630		US\$ 640
	Procoat Technology		Long-term investment	3,500	US\$ 1,942	4	US\$ 1,942
	Richtek Technology Corporation		Long-term investment	845	US\$ 1,006	2	US\$ 1,006
	Programmable Microelectronics		Long-term investment	487	US\$ 140		US\$ 140
	(Taiwan), Inc.						
	Auden Technology MFG. Co., Ltd.		Long-term investment	953	US\$ 1,117	2	US\$ 1,117
	Geo Vision, Inc.		Long-term investment	180	US\$ 129		US\$ 129
	EoNex Technologies, Inc.		Long-term investment	40	US\$ 2,024		US\$ 2,024
	Conwise Technology Co., Ltd.		Long-term investment	2,800	US\$ 1,930		US\$ 1,930
	Yi Yang Technology		Long-term investment	2,800	US\$ 967		US\$ 967
	Goyatek Technology Inc.		Long-term investment	1,740	US\$ 1,787		US\$ 1,787
	Trendchip Technologies Corp.		Long-term investment	2,000	US\$ 864		US\$ 864
	<u>Preferred stock</u>						
	Memsic, Inc.		Long-term investment	2,289	US\$ 1,560		US\$ 1,560
	Oepic, Inc.		Long-term investment	2,696	US\$ 1,240		US\$ 1,240
	Equator Technologies, Inc.		Long-term investment	770	US\$ 452		US\$ 452
	NanoAmp Solutions, Inc.		Long-term investment	250	US\$ 1,000		US\$ 1,000
	Signia Technologies, Inc.		Long-term investment	1,500	US\$ 150		US\$ 150
	Advanced Analogic Technology, Inc.		Long-term investment	948	US\$ 1,261		US\$ 1,261
	Monolithic Power Systems, Inc.		Long-term investment	804	US\$ 1,946		US\$ 1,946
	Ralink Technology, Inc.		Long-term investment	1,833	US\$ 1,500		US\$ 1,500
	Sonics, Inc.		Long-term investment	3,082	US\$ 3,082		US\$ 3,082
	Newport Opticom, Inc.		Long-term investment	1,157	US\$ 810		US\$ 810
	Silicon Data, Inc.		Long-term investment	2,000	US\$ 1,000		US\$ 1,000
	Reflectivity, Inc.		Long-term investment	1,596	US\$ 1,500		US\$ 1,500
	Capella Microsystems, Inc.		Long-term investment	800	US\$ 200		US\$ 200
	Angstrom Systems, Inc.		Long-term investment	1,567	US\$ 750		US\$ 750
	Tropian, Inc.		Long-term investment	1,464	US\$ 2,000		US\$ 2,000
	SiRF Technology, Inc.		Long-term investment	20	US\$ 131		US\$ 131
	LeadTONE, Inc.		Long-term investment	680	US\$ 238		US\$ 238
	Match Lab, Inc.		Long-term investment	313	US\$ 250		US\$ 250
	eBest, Inc.		Long-term investment	185	US\$ 97		US\$ 97
	Kilopass Technology, Inc.		Long-term investment	3,887	US\$ 2,000		US\$ 2,000

(Forward)

								December 31, 2002	
Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value			Market Value or Net Asset Value		
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)		
	<u>Bond</u>								
	eBest, Inc.		Long-term investment		US\$ 24		US\$ 24		
Alliance Fund	<u>Stock</u>								
	Global Investment Holding, Inc.	Investee	Long-term investment	10,000	\$ 100,000	6	\$ 100,000		
	<u>Preferred stock</u>								
	Quake Technologies, Inc.		Long-term investment	467	US\$ 1,000	1	US\$ 1,000		
	Pixim, Inc.		Long-term investment	833	US\$ 2,500	3	US\$ 2,500		
	Newport Opticom, Inc.		Long-term investment	962	US\$ 1,000	6	US\$ 1,000		
	NetLogic Microsystems, Inc.		Long-term investment	602	US\$ 1,850	1	US\$ 2,932		
	Ikanos Communication, Inc.		Long-term investment	1,741	US\$ 1,500	2	US\$ 1,500		
	Quicksilver Technology, Inc.		Long-term investment	1,475	US\$ 2,338	4	US\$ 2,338		
	Litchfield Communications		Long-term investment	3,799	US\$ 1,000	6	US\$ 1,000		
	Mosaic Systems		Long-term investment	2,481	US\$ 500	6	US\$ 500		
	Accelerant Networks		Long-term investment	441	US\$ 1,000	1	US\$ 1,000		
	Zenesis Technologies		Long-term investment	861	US\$ 500	4	US\$ 500		
	Reflectivity, Inc.		Long-term investment	1,596	US\$ 1,500	5	US\$ 1,500		
	Iridigm Display		Long-term investment	305	US\$ 502	2	US\$ 502		
	Spreadtrum		Long-term investment		US\$ 1,000		US\$ 1,000	Prepay	
	XHP Microsystem		Long-term investment	2,279	US\$ 750	6	US\$ 750	subscri	



TABLE 4

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Name of Marketable Security	Financial Statement Account	Counter-party	Nature of Relationship	Beginning Balance		Acquisition		Disposal			Gain (Loss) on Disposal
				Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Carrying Value (US\$ in Thousand)	
	Long-term investment	SSMC	Investee	301	\$ 2,907,967	81	\$ 1,421,846		\$	\$	\$
VI	Long-term investment	TSMC-BVI	Subsidiary	779,968	19,987,814	208,000	7,280,000				
ic Tech.	Long-term investment	Monolithic System Tech.	Investee			470	104,289				
Fund	Long-term investment	Emerging Alliance Fund	Subsidiary		741,617		168,615				
	Long-term investment	VIS	Investee	556,133	3,377,526	121,338	849,360				
	Long-term investment	Ya-Shin Technology	Subsidiary			(Note 2 ) 34,125	(Note 2 ) 341,250				
ent	Long-term investment	TSMC Development Inc.	Subsidiary	1	US\$ 201,231		US\$ 208,000				
uctor	Long-term investment	InveStar Semiconductor	Subsidiary	45,000	US\$ 45,766	6,300	US\$ 6,300				
ent Inc. h, LLC	Long-term investment	Development Fund (II) Inc. WaferTech, LLC	Subsidiary		US\$ 226,541		US\$ 120,000				
Duo Li	Short-term investment			26,278	350,000	33,108	450,000	59,386	807,970	800,000	7,970
	Short-term investment					70,860	850,000	70,860	853,974	850,000	3,974
OC	Short-term investment			25,923	350,000			25,923	356,458	350,000	6,458

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	Short-term investment			3,814		580,000		3,814		582,977		580,000		2,977
	Short-term investment			43,630		550,000		43,630		554,407		550,000		4,407
Chian	Short-term investment	28,409		400,000				28,409		402,869		400,000		2,869
<u>Equity certificate</u>														
RO	Long-term investment (Note 3)	23,168	US\$	10,047		1,194	US\$	536		20,714	US\$	14,806	US\$	9,766 US\$ 5,706 (Note 4)

Note 1: The ending balance included the recognition of the investment income (loss) by the equity method and the accumulated translation adjustment.

Note 2: Prepayment for the subscribe stock

Note 3: This equity certificate had been reclassified from short-term investment to long-term investment starting from July 2002.

Note 4: The total book value for sale is US\$9,100 thousand and with the unrealized loss on long-term investment is US\$666 thousand.

TABLE 5

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## ACQUISITION OF INDIVIDUAL REAL ESTATE AT COSTS OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Transaction Date	Transaction Amount	Payment Term	Counter-party	Nature of Relationship	Prior Transaction of Related Counter-party		Transfer Date	Transfer Amount	Price Reference	I
					Owner	Relationship				
June 19, 2002	\$ 263,000	By the construction progress	Mandartech Interiors, Inc.		N/A	N/A	N/A	N/A	Public bidding	Ma
July 11, 2002	137,402	By the construction progress	UISC		N/A	N/A	N/A	N/A	Public bidding	pu Ma
August 6, 2002	124,775	By the construction progress	Meissner & Wurst		N/A	N/A	N/A	N/A	Public bidding	pu Ma
November 15, 2002	244,654	By the construction progress	Fu Tsu Construction Co, Ltd.		N/A	N/A	N/A	N/A	Public bidding	pu Ma
April 9, 2002	135,000	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding	pu Ma
April 12, 2002	109,880	By the construction progress	Great Construction System, Inc.		N/A	N/A	N/A	N/A	Public bidding	pu Ma
June 24, 2002	984,995	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding	pu Ma

TABLE 6

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

TOTAL PURCHASE FROM OR SALE TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable		
			Purchase/Sale	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total	Note
TSMC	TSMC North America	Subsidiary	Sales	(\$94,433,401)	(57)	30 days from invoice date	(See Note 16)	(See Note 16)	\$9,739,236	96	
	Philips and its affiliates	Major shareholder	Sales	(2,909,008)	(2)	30 days from invoice date	None	None	352,706	3	
	WAFERTECH, LLC	Subsidiary	Purchase	9,955,154	41	30 days from monthly closing date	(See Note 16)	(See Note 16)	(617,751)	(25)	
	VIS	Investee	Purchase	3,469,198	14	45 days from monthly closing date	None	None	(653,876)	(26)	
	SSMC	Investee	Purchase	2,751,297	11	30 days from invoice date	None	None	(391,426)	(16)	

TABLE 7

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Ending Balance	Turnover Rate	Amount	Action Taken	Overdue	Amounts Received	Allowance in for Subsequent Bad Debts
							Period		
TSMC	TSMC North America	Subsidiary	\$ 9,739,236	18 days	\$3,709,733	Accelerate demand on accounts receivable		\$ 2,155,511	\$
	Philips and its affiliates	Major shareholder	352,706	29 days	55,050	Accelerate demand on accounts receivable		69,090	

TABLE 8

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.

## NAMES, LOCATIONS, AND RELATED INFORMATION OF INVESTEES ON WHICH THE COMPANY EXERCISES SIGNIFICANT INFLUENCE

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Investor Company	Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2002			Net Income (Loss) of the Investee	Investment Gain (Loss)	Note
				December 31, 2002	Dec. 31, 2001	Shares (Thousand)	Percentage of Ownership	Carrying Value (Note 1)			
TSMC	TSMC North America	San Jose, California, U.S.A.	Marketing and engineering support	\$ 333,178	\$ 333,178	11,000	100	\$ 173,601	\$ 140,654	\$ 139,021	Subsidiary
	TSMC Europe	Amsterdam, The Netherlands	Marketing and engineering support	2,960	2,960		100	13,670	(1,615)	1,615	Subsidiary
	TSMC Japan	Yokohama, Japan	Marketing and engineering support	83,760	83,760	6	100	94,258	3,145	6,045	Subsidiary
	VIS	Hsin-Chu, Taiwan	IC Design and manufacturing	6,503,640	6,503,640	556,133	25	2,415,297	(3,250,831)	(821,771)	Investee
	TSMC BVI	Tortola, British Virgin Islands	Investment	(Note 3) 31,445,780	24,165,780	987,968	100	(Note 3) 22,265,157	(4,714,203)	(4,714,203)	Subsidiary
	Chi Cherng Investment	Taipei, Taiwan	Investment	300,000	100,000		36	41,894	13,821	13,122	Investee
	Hsin Ruey Investment	Taipei, Taiwan	Investment	300,000	100,000		36	39,815	12,533	6,632	Investee
	TSMC Partners	Tortola, British Virgin Islands	Investment	10,350	10,350	300	100	3,753,733	924,362	993,292	Subsidiary
	SSMC	Singapore	Manufacturing wafers	6,408,190	4,986,344	382	32	3,136,115	(3,609,569)	(1,155,076)	Investee
	Emerging Alliance Fund	Cayman Islands	Investment	1,005,660	837,045		99	767,239	(142,865)	(142,151)	Subsidiary
	Ya-Shin Technology	Taipei, Taiwan	Electronic manufacturing	341,250		34,125	100	341,250			Subsidiary

Note 1: The treasury stocks are not deducted from the carrying values.

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Note 2: The gain from sales of treasury stock, which was transferred to capital surplus, is not deducted from the investment gain (loss) was in amount of NT\$43,036 thousand.

Note 3: The amount has not included the prepayment for the subscribed shares of 121,338 shares with total amount of NT\$849,360 thousand.

**Taiwan Semiconductor Manufacturing Company Ltd., and**

**Vanguard International Semiconductor Corporation**

**Combined Financial Statements as of December 31, 2002**

**Together with Independent Accountants Report**

Readers are advised that the original version of these financial statements is in Chinese. This English translation is solely for the readers convenience. If there is any conflict between these financial statements and the Chinese version or any difference in the interpretation of the two versions, the Chinese-language financial statements shall prevail.



Representation Letter

The combined balance sheet as of December 31, 2002 and the combined statement of income for the year ended December 31, 2002 of Taiwan Semiconductor Manufacturing Co., Ltd. and Vanguard International Semiconductor Corporation are in conformity with the requirements on public companies and their affiliates, taken as a whole, of Securities and Futures Committee (SFC) in the Republic of China (ROC), the ROC regulations governing the preparation of financial statements of public companies and accounting principles generally accepted in the Republic of China.

The accounting records underlying the combined balance sheet and the combined statement of income accurately and fairly reflect, in reasonable detail, the transactions of the Taiwan Semiconductor Manufacturing Company, Ltd., its consolidated affiliates and Vanguard International Semiconductor Corporation. There are no plans or intentions that may materially affect the carrying values or classifications of assets and liabilities.

Very truly yours,

TAIWAN SEMICONDUCTOR MANUFACTURING

COMPANY LTD.

By

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MORRIS CHANG

Chairman

English Translation of a Report Originally Issued in Chinese

Independent Accountants' Report

The Board of Directors and Shareholders

Taiwan Semiconductor Manufacturing Company Ltd.

We have reviewed the combined balance sheet as of December 31, 2002 and the related combined statement of income for the year then ended of Taiwan Semiconductor Manufacturing Company Ltd. and Vanguard International Semiconductor Corporation. Our reviews were made in accordance with the Guidelines for the Review of Combined Financial Statements of Affiliates. It is substantially less in scope than an examination in accordance with auditing standards generally accepted in the Republic of China, the objective of which is the expression of an opinion regarding the combined balance sheet and the combined statement of income taken as a whole. Accordingly, we do not express such an opinion.

Based on our reviews, we are not aware of any material modifications that should be made to the combined balance sheet and the combined statement of income referred to above in order for them to be in conformity with Regulations Governing the Preparation of Affiliates' Combined Operating Report, Combined Financial Statements and Relationship Report in the Republic of China (ROC), and the ROC regulation governing the preparation of financial statements of public company and the ROC generally accepted accounting principles.

As disclosed in Note 3 to the financial statements, the Company adopted Statement of Financial Accounting Standards (SFAS) No. 30, Accounting for Treasury Stock on January 1, 2002. SFAS No. 30 requires a parent company to record stock held by its subsidiary as treasury stock. The adoption of SFAS No. 30 resulted in the decrease of long-term investments and simultaneous increase of the book value of treasury stock by NT\$1,923,492 thousand as of December 31, 2002. Furthermore, net income increased by NT\$25,909 thousand for the year ended December 31, 2002.

T N Soong & Co

An Associate Member Firm of Deloitte Touche Tohmatsu

Effective April 22, 2002

(Formerly a Member Firm of Andersen Worldwide, SC)

Taipei, Taiwan

The Republic of China

January 16, 2003

Notice to Readers

The accompanying combined financial statements were not prepared with a view to comply with the published guidelines of the United States Securities and Exchange Commission or the American Institute of Certified Public Accountants ( AICPA ) and have not been examined or otherwise reported upon under AICPA guidelines. They are not presented in accordance with generally accepted accounting principles in the United States of America for consolidated financial statements.

English Translation of Financial Statements Originally Issued in ChineseTAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND  
VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

## COMBINED BALANCE SHEET

December 31, 2002

(In Thousand New Taiwan Dollars, Except Par Value)

<b>ASSETS</b>	<b>Amount</b>	<b>%</b>
<b>CURRENT ASSETS</b>		
Cash and cash equivalents (Notes 2 and 5)	\$ 73,165,758	18
Short-term investments (Notes 2 and 6)	170,012	
Receivables from related parties (Note 21)	381,812	
Notes receivable	60,664	
Accounts receivable (Note 24)	20,131,799	5
Allowance for doubtful receivables (Note 2)	(1,016,923)	
Allowance for sales returns and others (Note 2)	(2,456,986)	(1)
Inventories net (Notes 2 and 7)	12,970,416	3
Deferred income tax assets (Notes 2 and 17)	3,412,940	1
Prepaid expenses and other current assets (Notes 21 and 24)	3,470,885	1
<b>Total Current Assets</b>	<b>110,290,377</b>	<b>27</b>
<b>LONG-TERM INVESTMENTS(Notes 2, 3, 8 and 19)</b>	<b>11,349,920</b>	<b>3</b>
<b>PROPERTY, PLANT AND EQUIPMENT (Notes 2, 9 and 13)</b>		
Cost		
Land and land improvements	874,907	
Buildings	84,376,642	21
Machinery and equipment	377,256,106	91
Office and other equipment	7,744,848	2
<b>Total cost</b>	<b>470,252,503</b>	<b>114</b>
Accumulated depreciation	(242,369,570)	(59)
Advance payments and construction in progress	29,157,931	7
<b>Net Property, Plant and Equipment</b>	<b>257,040,864</b>	<b>62</b>
<b>GOODWILL (Note 2)</b>	<b>10,158,845</b>	<b>2</b>

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OTHER ASSETS		
Deferred income taxes assets (Notes 2 and 17)	13,153,131	3
Deferred charges net (Notes 2 and 10)	9,921,646	3
Refundable deposits	45,245	
Idle assets net (Note 2)	386,317	
Assets leased to others (Note 2)	87,246	
Miscellaneous	34,709	
	<hr/>	<hr/>
Total Other Assets	23,628,294	6
	<hr/>	<hr/>
TOTAL ASSETS	\$ 412,468,300	100
	<hr/>	<hr/>

LIABILITIES AND SHAREHOLDERS EQUITY	Amount	%
<b>CURRENT LIABILITIES</b>		
Short-term bank loans (Note 11)	\$ 1,283,000	
Commercial paper (Note 12)	1,080,000	
Payable to related parties (Note 21)	1,167,437	
Accounts payable (Note 24)	5,786,264	1
Payable to contractors and equipment suppliers	14,414,639	4
Accrued expenses and other current liabilities (Note 24)	7,205,454	2
Current portion of long-term debt (Notes 9, 13, 14 and 15)	15,572,189	4
	<hr/>	<hr/>
Total Current Liabilities	46,508,983	11
	<hr/>	<hr/>
<b>LONG-TERM LIABILITIES</b>		
Long-term bonds payables (Note 14)	36,100,000	9
Long-term bank loans (Note 13)	16,384,413	4
Other long-term payables (Note 15)	4,281,665	1
Obligation under capital lease (Notes 2 and 9)	290,416	
	<hr/>	<hr/>
Total Long-term Liabilities	57,056,494	14
	<hr/>	<hr/>
<b>OTHER LIABILITIES</b>		
Accrued pension cost (Notes 2 and 16)	2,550,918	1
Guarantee deposits (Note 23)	1,399,846	
Deferred gain on sale and leaseback (Note 2)	114,928	
Other	177,256	
	<hr/>	<hr/>
Total Other Liabilities	4,242,948	1
	<hr/>	<hr/>
MINORITY INTEREST IN AFFILIATES (Note 2)	8,806,668	2
	<hr/>	<hr/>
Total Liabilities	116,615,093	28
	<hr/>	<hr/>
<b>SHAREHOLDERS EQUITY (Notes 2 and 18)</b>		
Capital stock \$10 par value		
Authorized: 24,600,000 thousand shares		
Issued: Preferred 1,300,000 thousand shares	13,000,000	3
Common 18,622,887 thousand shares	186,228,867	45
Capital surplus		

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Merger and others (Note 2)	56,961,753	14
Treasury stock (Notes 3 and 19)	43,036	
Retained earnings:		
Appropriated as legal reserve	18,641,108	5
Unappropriated earnings	22,151,089	5
Unrealized loss on long-term investments (Note 2)	(194,283)	
Cumulative translation adjustments (Note 2)	945,129	
Treasury stock (at cost) 42,001 thousand shares (Notes 2, 3 and 19)	(1,923,492)	
	<hr/>	<hr/>
Total Shareholders Equity	295,853,207	72
	<hr/>	<hr/>
<b>TOTAL LIABILITIES AND SHAREHOLDERS EQUITY</b>	<b>\$ 412,468,300</b>	<b>100</b>
	<hr/>	<hr/>

The accompanying notes are an integral part of the combined financial statements.

(With T N Soong & Co review report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in ChineseTAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD., AND  
VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

## COMBINED STATEMENT OF INCOME

For the Year Ended December 31, 2002

(In Thousand New Taiwan Dollars, Except Combined Earnings Per Share)

	<u>Amount</u>	<u>%</u>
GROSS SALES (Notes 2, 21 and 25)	\$ 171,038,907	
SALES RETURNS AND ALLOWANCES (Note 2)	(4,236,258)	
NET SALES	166,802,649	100
COST OF SALES (Note 21)	118,054,595	71
GROSS PROFIT	48,748,054	29
OPERATING EXPENSES (Notes 21 and 25)		
Research and development	11,890,880	7
General and administrative	7,237,899	5
Marketing	2,225,936	1
Total Operating Expenses	21,354,715	13
INCOME FROM OPERATIONS	27,393,339	16
NON-OPERATING INCOME (Notes 21 and 25)		
Interest	1,146,375	1
Gain on reversal of inventory reserve (Note 2)	793,424	1
Royalty income (Note 23)	527,126	
Gain on sales of property, plant and equipment (Note 2)	278,896	
Technical service income (Notes 21 and 23)	162,149	
Gain on sales of short-term investments net (Note 2)	99,215	
Other	295,835	

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Total Non-Operating Income	3,303,020	2
<hr/>		
NON-OPERATING EXPENSES (Note 25)		
Interest (Notes 2, 9 and 24)	3,095,841	2
Permanent loss on long-term investments (Note 2)	907,596	1
Investment loss recognized by equity method net (Notes 2 and 8)	836,221	1
Loss on sales of and provision for loss on property, plant and equipment (Note 2)	531,626	
Premium expense from option contracts net (Notes 2 and 24)	419,513	

(Forward)



English Translation of Financial Statements Originally Issued in Chinese

	<u>Amount</u>	<u>%</u>
Casualty loss net (Note 2)	\$ 119,485	
Foreign exchange loss net (Notes 2 and 24)	106,045	
Loss on sales of long-term investments net (Note 2)	80,405	
Amortization of issuance costs of bonds (Note 2)	18,523	
Other	81,792	
	<u>6,197,047</u>	<u>4</u>
<b>Total Non-Operating Expenses</b>		
	<u>6,197,047</u>	<u>4</u>
<b>INCOME BEFORE INCOME TAX (Note 25)</b>	<b>24,499,312</b>	<b>14</b>
<b>INCOME TAX EXPENSE (Notes 2 and 17)</b>	<b>(5,342,872)</b>	<b>(3)</b>
	<u>19,156,440</u>	<u>11</u>
<b>INCOME BEFORE MINORITY INTEREST</b>	<b>19,156,440</b>	<b>11</b>
<b>MINORITY INTEREST IN LOSS OF AFFILIATES (Notes 2 and 25)</b>	<b>2,453,851</b>	<b>2</b>
	<u>21,610,291</u>	<u>13</u>
<b>COMBINED NET INCOME</b>	<b>\$ 21,610,291</b>	<b>13</b>
	<u>21,610,291</u>	<u>13</u>
	<b>Income Before Income Tax</b>	<b>Combined Net Income</b>
<b>EARNINGS PER SHARE (Note 20)</b>		
Basic earnings per share	\$ 1.29	\$ 1.14
	<u>1.29</u>	<u>1.14</u>
Diluted earnings per share	\$ 1.29	\$ 1.14
	<u>1.29</u>	<u>1.14</u>

The accompanying notes are an integral part of the combined financial statements.

(With T N Soong & Co review report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.,  
AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

NOTES TO COMBINED FINANCIAL STATEMENTS

(Amounts in Thousand New Taiwan Dollars, Unless Specified Otherwise)

1. GENERAL

Taiwan Semiconductor Manufacturing Company Ltd. ( TSMC ), a Republic of China corporation, was incorporated as a venture among the government of the Republic of China, acting through the Development Fund of the Executive Yuan; Philips Electronics N.V. and certain of its affiliates (Philips); and certain other private investors. In September 1994, its shares were listed on the Taiwan Stock Exchange (TSE). In October 8, 1997, TSMC listed some of its shares of stock on the New York Stock Exchange in the form of American Depositary Shares. The shares of Vanguard International Semiconductor Corporation (VIS), TSMC's 25% owned affiliate, have been listed on the Republic of China (ROC) Over-the-Counter Securities Exchange since March 25, 1998.

TSMC is engaged mainly in the manufacturing, selling, packaging, testing and designing of integrated circuits and other semiconductor devices, and the manufacturing of masks. VIS is engaged mainly in the researching, designing, developing, manufacturing, packaging, testing and selling of memory integrated circuits, large scale integrated ICs, extra large scale integrated ICs and related parts.

Notice to Readers

The combined financial statements include the consolidated accounts of TSMC plus the accounts of VIS, which is not a consolidated subsidiary of TSMC. TSMC's consolidated financial statements prepared in accordance with accounting principles generally accepted in the United States, would not include the assets, liabilities, shareholders' equity, revenues or expenses of VIS.

TSMC has six direct wholly-owned subsidiaries, namely, TSMC North America (TSMC-North America), Taiwan Semiconductor Manufacturing Company Europe B.V (TSMC-Europe), TSMC Japan K. K. (TSMC-Japan), TSMC International Investment Ltd. (TSMC International), TSMC Partners Ltd. (TSMC Partners), Ya Xin Technology, Inc. (Ya Xin), a 99.5% owned subsidiary, Emerging Alliance Fund, LP (Emerging Alliance) and two 36% owned affiliates Chi Cherng Investment Co., Ltd. (Chi Cherng, which is 36% owned by TSMC and 64% owned by Hsin Ruey Investment Co., Ltd.) and Hsin Ruey Investment Co., Ltd. (Hsin Ruey, which is 36% owned by TSMC and 64% owned by Chi Cherng). TSMC International has two wholly-owned subsidiaries TSMC Development, Inc. (TSMC Development), TSMC Technology, Inc. (TSMC Technology), and two 97%-owned subsidiaries InveStar Semiconductor Development Fund, Inc. (InveStar) and InveStar Semiconductor Development Fund, Inc. (II) LDC (InveStar II). TSMC Development has a 99.7% owned subsidiary, WaferTech, LLC (WaferTech). VIS has three direct and indirect wholly-owned subsidiaries, namely, VIS Associates, Inc., VIS Investment Holding, Inc. and VIS Micro, Inc.

TSMC established Ya Xin in November 2002 and subsequently signed a merger agreement with Global UniChip Corp. (Global UniChip) in December 2002. The merger was effective on January 4, 2003 and Global UniChip is the surviving company. TSMC holds 52% of Global UniChips shares after the completion of the merger.

The following diagram presents information regarding the relationship and ownership percentages among TSMC, VIS and their affiliates as of December 31, 2002:

TSMC-North America is engaged in the sales and marketing of integrated circuits and semiconductor devices. TSMC-Europe, TSMC-Japan, TSMC Development and TSMC Technology are engaged mainly in marketing and engineering support activities. TSMC Partners, Chi Cherng and Hsin Ruey are engaged in investments. Ya Xin is engaged in design of integrated circuits. TSMC International is engaged in providing investment in companies involved in design, manufacture, and other related business in semiconductor industries. Emerging Alliance, InveStar and InveStar II are engaged in investing in new start-up companies in the fields of high-technology. WaferTech is engaged in the manufacturing, selling, testing and designing of integrated circuits and other semiconductor devices. VIS subsidiaries are mainly engaged in marketing, researching, developing and investing affairs.

## 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

### Combination

All significant intercompany balances and transactions have been eliminated in these combined financial statements. The combined financial statements include, as of and for the year ended December 31, 2002, the accounts of all majority (directly and indirectly) owned subsidiaries of TSMC and VIS (TSMC's 25% owned affiliate), whom TSMC exercises significant influence on. TSMC and the foregoing subsidiaries and affiliates are hereinafter referred to collectively as the Company.

The respective total assets and revenues of VIS Associates, Inc. and its subsidiaries, which are subsidiaries of VIS, are less than 10% of those of VIS; therefore, the accounts of these entities are not included in VIS combined financial statements.

Minority interests in the aforementioned affiliates are presented separately in the combined financial statements.

Cash and cash equivalents

Government bonds acquired under agreements that provide for their repurchase within less than three months from date of purchase are classified as cash equivalents.

Short-term investments

Short-term investments are carried at the lower of cost or market value. The costs of investments sold are determined using the specific identification method.

Allowance for doubtful receivables

Allowance for doubtful receivables are provided based on a review of the collectibility of accounts receivables.

Sales and sales returns and allowances

Sales are recognized when titles of products and risks of ownerships are transferred to customers, primarily upon shipment. Allowance and related provisions for sales returns and others are estimated based on historical experience. Such provisions are deducted from sales in the year the products are sold and the estimated related costs are deducted from cost of sales.

Inventories

Inventories are stated at the lower of cost or market value. Inventories are recorded at standard cost and adjusted to approximate weighted-average cost at the end of each period. Market value represents net realizable value for finished goods and work in process, and replacement value for raw materials, supplies and spare parts.

Long-term investments

Investments in shares of stock of companies wherein the Company exercises significant influence on the operating and financial policy decisions are accounted for using the equity method. The Company's proportionate share in the net income or net loss of investee companies are recognized as components of the Investment income/loss recognized by equity method-net account. The Company adopted Statements of Financial Accounting Standards ( SFAS ) No. 30, Accounting for Treasury Stock on January 1, 2002. SFAS No. 30 requires a parent company to record stock held by its subsidiary as treasury stock. The recorded value of treasury stock is based on the carrying values of the short/long-term investments on the subsidiaries' books as of January 1, 2002.



When the Company subscribes to additional investee shares at a percentage different from its existing equity interest, the resulting carrying amount of the investment in equity investee differs from the amount of Company's proportionate share in the investee's net equity. The Company records such difference as an adjustment to capital surplus as well as the long-term investments accounts. In the event an investee has an accumulated deficit, it will record an offset to its capital surplus, excluding the reserve for asset revaluation, through retained earnings. The Company will also record a corresponding entry equivalent to its proportionate share of the investee capital surplus, excluding the reserve for asset revaluation that was generated subsequent to any acquisition of equity interest in the investee.

Other stock investments are accounted for using the cost method. Cash dividends are recognized as income in the year received but are accounted for as reduction in the carrying values of the long-term investments if the dividends are received in the same year that the related investments are acquired. Stock dividends are recognized neither as investment income nor increase of long-term investment but recorded only as an increase in the number of shares held. An allowance is recognized for any decline in the market value of investments using quoted market prices with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the market value. The carrying values of investments with no quoted market price are reduced to reflect other than temporary declines in their values with the related impairment loss charged to income.

Investments in foreign mutual funds are stated at the lower of cost or net asset value (NAV). An allowance is recognized when the cost of the funds are lower than their net asset values, with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the net asset value.

Investment in convertible notes and stock purchase warrants are carried at cost.

The costs of investments sold are determined using the weighted-average method.

If an investee company has an unrealized loss on a long-term investment evaluated using the lower-of-cost-or-market method, the Company recognizes a corresponding unrealized loss in proportion to its equity interest and records the amount as a component of its own shareholders' equity.

Gain or loss on transactions with investee companies wherein the Company owned at least 20% of the outstanding common stock but less than a controlling interest are deferred in proportion to the ownership percentage until realized through a transaction with a third party. The entire amount of the gains or losses on sales to majority-owned subsidiaries is deferred until such gains or losses are realized through the subsequent sale of the related products to third parties. Gains or losses from sales by investee companies to the Company are deferred in proportion to the ownership percentage until realized through transactions with third parties.

Property, plant and equipment, assets leased to others and idle assets

Property, plant and equipment and assets leased to others are stated at cost less accumulated depreciation. Idle assets are stated at the lower of book value or net realized value. Significant additions, renewals, betterments and interest expense incurred during the construction period are capitalized. Maintenance and repairs are expensed in the period incurred. Property, plant and equipment covered by agreements qualifying as capital leases are carried at the lower of the present value of future minimum rent payments, or the market value of the property at the inception date of the lease. The lessee's periodic rent payment includes the purchase price of the leased property and the interest expense.

Depreciation is computed using the straight-line method over these estimated service lives, which range as follows: Land improvements 20 years, buildings 5 to 20 years; machinery and equipment 5 years; and office and other equipment 2 to 7 years.

Upon sale or disposal of property, plant and equipment, the related cost and accumulated depreciation are removed from the accounts, and any gain or loss is credited or charged to income in the period of disposal.

Goodwill

Goodwill represents the excess of the consideration paid for acquisitions over the fair market value of identifiable net assets acquired and the difference between the investment cost and the Company's proportionate share in the net assets of acquired investee companies. Goodwill is amortized using the straight-line method over the estimated life of 10 years.

Deferred charges

Deferred charges consist of software and system design costs, technology know-how, bond issuance and financing costs, and technology license fees. The amounts are amortized as follows: Software and system design costs 3 years, technology know-how 5 years; bond issuance and financing costs the term of the bonds and related line of credit; technology license fee the shorter of the estimated life of the technology or the term of the technology transfer contract.

Pension costs

Net periodic pension costs are recorded on the basis of actuarial calculations. Unrecognized net transition obligation and unrecognized net gain are amortized over 25 years by TSMC and 26 years by VIS.

Deferred gain on sales and leaseback

The gain on the sale of property that it simultaneously leased back is deferred by the Company. This deferred gain on sales and leaseback transactions is amortized as follows: (a) operating leases adjustment of rental expenses over the term of the leases and (b) capital leases adjustment of depreciation expenses over the estimated useful life of the property or the term of the lease; whichever is shorter.

Casualty loss

Casualty loss consists of the accrued loss caused by the earthquake on March 31, 2002 less the estimated insurance compensation.

Income tax

The Company uses an inter-period tax allocation method for income tax. Deferred income tax assets and liabilities are recognized for the tax effects of temporary differences, unused tax credits, and operating loss carry forwards. Valuation allowances are provided to the extent, if any, that it is more likely than not that deferred income tax assets will not be realized. A deferred tax asset or liability is, according to the classification of its related asset or liability, classified as current or non-current. However, if a deferred tax asset or liability does not relate to an asset or liability in the financial statements, then it is classified as current or non-current based on the expected length of time before it is realized.

Any tax credit arising from the purchase of machinery, equipment and technology, research and development expenditures, personnel training, investments in important technology-based enterprise are recognized using the current method.

Adjustments of prior years tax liabilities are added to or deducted from the current year's tax provision.

As of January 1, 1998, income taxes on unappropriated earnings (excluding the foreign combined entity) of 10% are expensed in the year of shareholder approval which is usually the year subsequent to the year incurred.

Derivative financial instruments

The Company enters into foreign currency forward contracts to manage currency exposures in cash flow and in foreign currency-denominated assets and liabilities. The differences in the New Taiwan dollar amounts translated using the spot rate and the amounts translated using the contracted forward rates are amortized over the terms of the forward contracts using the straight-line method. At the balance sheet dates, the receivables or payables arising from forward contracts are restated using the prevailing spot rate at the balance sheet date and the resulting differences are recognized in charged to income. Also, the receivables and payables related to the forward contract are netted with the resulting amount presented as either an asset or a liability.



The Company enters into currency swap contracts to manage exposures to changes in the foreign exchange rate on existing assets and liabilities. These transactions are accounted for on an accrual basis, in which a cash settlement receivable or payable is recorded as an adjustment to interest income or expenses.

The Company enters into interest rate swap transactions to manage exposures from changes in interest rates on existing liabilities. These transactions are accounted for on an accrual basis, in which the cash settlement receivable or payable is recorded as an adjustment to interest income or expense.

The notional amount of foreign currency option contracts entered into for hedging purposes are not recognized as an asset or liability on the contract dates. The premiums paid or received for the call or put options are amortized to income on a straight-line basis over the term of the related contract.

#### Foreign-currency transactions

Foreign-currency transactions are recorded in New Taiwan dollars at the current rate of exchange in effect when the transaction occurs. Gains or losses derived from foreign currency transactions or monetary assets and liabilities denominated in a foreign currency are recognized in current operations. At year-end, foreign-currency assets and liabilities are revalued at the prevailing exchange rate with the resulting gain or loss recognized in current operations.

#### Translation of foreign-currency financial statements

ROC Financial Accounting Standards (FAS) No. 14, Accounting for Foreign-Currency Transactions, applies to foreign subsidiaries that use the local foreign currency as its functional currency. The financial statements of foreign subsidiaries are translated into New Taiwan dollars at the following exchange rates: assets and liabilities current rate on balance sheet date; shareholders equity historical rate; income and expenses weighted average rate during the year. The resulting translation adjustment is recorded as a separate component of shareholders equity.

### 3. NEW ACCOUNTING PRONOUNCEMENTS

In accordance with the Statement of Financial Accounting Standards No. 30, Accounting for Treasury Stock and other relevant regulations from Securities and Futures Commission (SFC), the Company is required to reclassify its common stock held by subsidiaries from short/long-term investments to treasury stock. The reclassification is based on the carrying value of NT\$2,115,695 thousand as recorded by the subsidiaries as of January 1, 2002. The adoption of SFAS No. 30 resulted in the decrease of long-term investments and the increase of treasury stock by NT\$1,923,492 thousand as of December 31, 2002, and an increase in net income for the year ended December 31, 2002 by NT\$25,909 thousand.

## 4. SIGNIFICANT ELIMINATION ENTRIES

Significant transactions and balances with affiliates that have been eliminated upon combination are as follows:

Company	Account	Amount	Transaction Entity	
TSMC	Payable to related parties	\$ 653,876	VIS	
		617,751	WaferTech	
		29,520	TSMC-Europe	
		19,643	TSMC-Japan	
		14,511	TSMC-North America	
		9,424	TSMC Technology	
		Receivable from related parties	9,739,236	TSMC-North America
			58,301	VIS
		4,545	TSMC Technology	
		Refundable deposits	514,846	VIS
	Sales	94,433,401	TSMC-North America	
		92,119	VIS	
	Purchases	1,152	WaferTech	
		9,955,154	WaferTech	
	Marketing expenses commissions	3,469,198	VIS	
208,226		TSMC-Japan		
	132,086	TSMC-Europe		
	1,635	WaferTech		
TSMC International	Notes receivable	347,530	TSMC Technology	
	Interest receivable	188,842	TSMC Technology	
	Royalty income	455,778	TSMC Technology	
	Interest revenue	26,660	TSMC Technology	
TSMC Partners	Notes receivable	10,666,619	TSMC International	
	Deferred revenue	9,398,140	TSMC International	
	Royalty income	607,669	TSMC International	
	Interest income	345,620	TSMC International	
TSMC Technology	Accounts receivable	4,986	WaferTech	
	Deferred revenue	13,356	TSMC Development	
	Management service income	27,331	WaferTech	
	Technical service income	14,758	TSMC Development	
WaferTech	Deferred charges	31,278	TSMC Technology	
	Administrative expense	34,563	TSMC Technology	

## 5. CASH AND CASH EQUIVALENTS

	2002
Cash and bank deposits	\$ 70,109,524
Government bonds acquired under repurchase agreements	3,056,234
	<u>\$ 73,165,758</u>

6. SHORT TERM INVESTMENTS

	<u>2002</u>
Listed stocks	\$ 170,012
Market value	<u>\$ 2,455,582</u>

The market values of listed stocks as of December 31, 2002 were based on the average closing price for the month of December 2002.

7. INVENTORIES NET

	<u>2002</u>
Finished goods	\$ 4,752,138
Work in process	10,299,342
Raw materials	557,279
Supplies and spare parts	1,239,407
	<u>16,848,166</u>
Less allowance for losses	(3,877,750)
	<u>\$ 12,970,416</u>

8. LONG-TERM INVESTMENTS

	<u>2002</u>	
	<u>Carrying</u>	<u>% of</u>
	<u>Value</u>	<u>Owner-</u>
		<u>Ship</u>
<u>Shares of stock</u>		
Equity method:		
Non-publicly traded stock		
Systems on Silicon Manufacturing Company Pte Ltd. (SSMC)	\$ 3,136,115	32
VIS Associates Inc.	1,217,065	100

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4,353,180

Cost method:

Common stock

Publicly traded stock

Monolithic System Tech.	104,289	2
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Amkor Technology	280,748	
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Taiwan Mask	32,129	2
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PowerChip Semiconductor, Inc.	2,513,378	7
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Etron Technology Inc.	216,852	2
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Non-publicly traded stock

Walsin Advanced Electronics	302,559	8
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United Technology	232,300	13
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Global Testing Corp. (GTC)	179,882	10
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Megic	177,000	9
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Shin-Etsu Handotai Taiwan Co. Ltd.	105,000	7
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(Forward)

	2002	
	Carrying	% of
	Value	Owner- Ship
Global Investment Holding	\$ 100,000	6
Hong Tung Venture Capital	83,916	10
EoNEX Technologies, Inc.	70,305	6
Procoat Technology, Inc.	67,490	12
Conwise Technology Corp. Ltd.	67,039	14
FormFactor, Inc.	64,360	1
Goyatek Technology, Inc.	62,104	8
Programmable Microelectronics (Taiwan) Corp.	59,358	4
W.K. Technology, Fund IV	50,000	2
RichTek Technology Corp.	46,986	9
APE	46,743	6
Auden Technology MFG. Co., Ltd.	38,819	4
Yi Yang Technology	33,606	9
TrendChip Technologies Corp.	29,992	5
ChipStrate Technology, Inc.	10,426	9
GeoVision, Inc.	4,518	2
Divio, Inc.	104	
	<u>4,979,903</u>	
Preferred stock		
Non-publicly traded stock		
Sonics, Inc.	229,787	10
Tropian, Inc.	150,620	5
Reflectivity, Inc.	146,262	15
Monolithic Power Systems, Inc.	137,135	16
Atheros Communications, Inc.	124,868	3
Memsic, Inc.	106,344	23
Pixim, Inc.	87,845	3
Quicksilver Technology	82,153	4
FormFactor, Inc.	69,506	1
Kilopass Technologies, Inc.	69,506	18
NetLogic Microsystems	65,005	1
NanoAmp Solutions, Inc.	64,397	4
Newport Opticom, Inc.	63,288	15
Integrated Memory Logic, Inc.	62,868	12
Match Lab, Inc.	60,818	11
IP Unity	56,856	2
Ikanos Communication	52,707	2
Ralink Technologies, Inc.	52,130	6
SiRF Technology Holdings, Inc.	50,878	1
LightSpeed Semiconductor Corp.	46,534	3
Advanced Analogic Technology, Inc.	43,824	2
OEpic, Inc.	43,094	7
Accelerant Networks	35,138	1
Litchfield Communications	35,138	6

(Forward)



	2002	
	Carrying	% of
	Value	Owner- Ship
Quake Technologies, Inc.	\$ 35,138	1
Spreadtrum	35,138	
HiNT Corp.	34,753	5
Silicon Data, Inc.	34,753	7
XHP Microsystem	26,353	6
Angstrom Systems, Inc.	26,065	7
Equator Technologies, Inc.	24,675	2
Capella Microsystems, Inc.	23,667	12
Sensory, Inc.	21,720	5
Iridigm Display	17,639	2
Mosaic Systems	17,569	6
Zenesis Technologies	17,569	4
Divio, Inc.	17,377	4
Incentia Design Systems, Inc.	17,377	2
Oridus, Inc. (CreOsys, Inc.)	15,639	8
Signia Technologies, Inc.	15,639	12
LeadTONE Wireless, Inc.	8,270	6
eBest!, Inc.	3,370	1
	2,329,412	
<u>Convertible note</u>		
eBest!, Inc.	834	
<u>Funds</u>		
Horizon Ventures	195,452	
Crimson Asia Capital	41,988	
	237,440	
Less allowance for losses	(550,849)	
	\$ 11,349,920	

The carrying value of the investments accounted for using the equity method and the related investment gains or losses were determined based on the audited financial statements of the investees in the same year. The investment gain and loss of investee companies consist of the following:

	2002
SSMC	(\$ 1,155,076)
VIS Associates Inc.	318,855

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(\$ 836,221)

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The market values and net assets values of the Company's long-term investments are as follows:

	<u>2002</u>
Market value of publicly traded stocks	\$ 2,667,944
Equity in the net assets of non-publicly traded stocks	8,644,956
Net asset value of funds	237,440

On January 8, 2003, the Company's investee company, VIS, issued 600,000 thousand shares of common stock at a discounted price of NT\$7 per share. The Company prepaid NT\$849,360 thousand at the end of 2002 for the share subscription and paid an additional NT\$766,815 thousand in January 2003. In this round of equity offering, the Company purchased a total of 230,882 thousand shares of VIS stocks. As a result, its ownership in VIS increased from 25% to 28%.

#### 9. PROPERTY, PLANT, AND EQUIPMENT

Accumulated depreciation consists of the following:

	<u>2002</u>
Land improvements	\$ 127,341
Buildings	28,383,157
Machinery and equipment	209,774,513
Office and other equipment	4,084,559
	<u>\$ 242,369,570</u>

Information on the status of expansion or construction plans of TSMC's manufacturing facilities at December 31, 2002 is as follows:

Manufacturing Plant	Expected or Actual		
	Estimated Cost	Accumulated Expenditures	Date of Starting of Operations
Fab 6	\$ 93,932,000	\$ 87,054,700	March 2000
Fab 12 Phase 1	80,318,400	47,095,400	March 2002
Fab 14 Phase 1	30,411,000	22,169,900	June 2003

Interest expense (before deducting capitalized amount of NT\$3,332,138 thousand) for the year ended December 31, 2002 was NT\$236,297 thousand. The interest rates used for purposes of calculating the capitalized amount were 2.07% to 6.59%.



VIS has entered into agreements to lease certain equipment that qualify as capital leases and will expire in September 2005. Information on capital leases is summarized as follows:

	<u>2002</u>
Total amount of equipment under capital lease	\$ 530,674
Present value of obligation under capital lease	\$ 445,800
Current portion	(155,384)
Long-term portion	<u>\$ 290,416</u>

10. DEFERRED CHARGES-NET

	<u>2002</u>
Technology license fees	\$ 6,519,334
Software and system design costs	3,212,086
Bond issuance costs and financing costs	130,296
Technology know-how	49,500
Others	10,430
	<u>\$ 9,921,646</u>

11. SHORT-TERM BANK LOANS

	<u>2002</u>
Unsecured loan in US dollars:	
US\$21,000 thousand, refinanced in May 2002, annual interest at 1.82%, repayable by May 2003	\$ 729,813
Loans for importation of materials:	
US\$7,285 thousand, repayable by January 2003, annual interest 1.83% 2.14%	253,187
Working capital loans:	
Repayable by April 2003, annual interest at 2.55% 2.60%	300,000
	<u>\$ 1,283,000</u>

As of December 31, 2002, TSMC provided NT\$1,390,120 thousand (US\$40,000 thousand) guarantee for the above US\$21,000 thousand loan.

Unused credit lines as of December 31, 2002 aggregated approximately NT\$14,070,000 thousand and US\$366,500 thousand.

12. COMMERCIAL PAPER

The instruments, which bear annual interest rates ranging from 1.95% to 2.10%, are secured by bank guaranty and are repayable from January 2003 to May 2003.

## 13. LONG-TERM BANK LOANS

	<b>2002</b>
<b>Secured loan:</b>	
US\$440,000 thousand, repayable by February 2005, US\$122,000 thousand repaid in 2002, annual floating interest at 2.078%	\$ 11,051,454
<b>Unsecured loan:</b>	
US\$200,000 thousand, repayable by December 2003, annual interest at 2.0375%	6,950,600
<b>Loans for purchases of equipment and facility:</b>	
Repayable in semi-annual installments from November 1999 to June 2004, annual floating interest at 3.00% to 4.00%	2,340,000
Repayable in semi-annual installments from October 2000 to October 2005, annual floating interest at 2.89% to 3.95%	2,200,000
Repayable in semi-annual installments from October 2004 to October 2007, annual interest at 4.03% to 4.25%	400,000
Repayable in quarterly installments from January 2003 to July 2007, annual interest at 5.07% to 6.48%	330,000
Repayable in semi-annual installments from February 2000 to February 2005, annual interest at 5.32% to 6.48%	184,000
Repayable in semi-annual installments from July 1999 to July 2004, annual interest at 5.32% to 6.35%	148,000
Repayable in semi-annual installments from December 2003 to December 2007, annual interest at 3.75%	111,000
Repayable in semi-annual installments from December 2003 to December 2007, annual interest at 2.02%	88,865
Repayable in semi-annual installments from February 1998 to February 2003, annual interest at 5.32% to 6.48%	40,000
<b>Commercial paper guaranteed by financial institutions:</b>	
Repayable from May 2002 to May 2005, annual interest at 2.22% to 2.57%	1,750,000
Repayable in May 2004, annual interest at 1.60% to 2.41%	300,000
	<b>\$ 25,893,919</b>

As of December 31, 2002, all of the US dollar loans above were guaranteed by TSMC. In addition, the property and equipment of WaferTech with carrying amount of approximately NT\$29,053,508 thousand (US\$836,000 thousand) is pledged for the secured loan. Under the unsecured loan, TSMC is required to maintain certain financial covenants which, if violated, could result in payment of this obligation becoming due prior to the originally scheduled maturity date. These financial covenants require TSMC to, among other things, maintain minimum levels of working capital, earnings before interest, taxes, depreciation and amortization, and net worth. TSMC was in compliance with these financial covenants as of December 31, 2002. Properties of VIS with carrying value of NT\$8,218,845 thousand have been pledged as collateral for the loans for purchases of equipment and facility and commercial paper.

The bonds (Note 14) and loan agreements of VIS require, among other things, the maintenance of certain financial ratios, including current ratio, debt ratio and net worth ratio. Among those specific ratios, VIS has failed to meet the net worth requirement as of December 31, 2002. The covenant violation can only be cured by raising additional capital or by approval by the banks. On January 8, 2003 VIS issued shares of capital stock for proceeds of NT\$4,200,000 thousand to cure the covenant violation (Note 18).

As of December 31, 2002, future minimum principal payments under the Company's long-term bank loan arrangements are as follows:

Year	Amount
2003	\$ 9,509,506
2004	1,156,000
2005	14,393,454
2006	
2007 and thereafter	834,959
	<u>\$ 25,893,919</u>

Unused credit lines for long-term bank loans as of December 31, 2002 aggregated approximately NT\$200,135 thousand and US\$122,000 thousand.

#### 14. BONDS

	2002
<b>Domestic unsecured bonds</b>	
Issued on March 4, 1998 and payable on March 4, 2003 in one lump sum payment, 7.71% annual interest payable semi-annually	\$ 4,000,000
Issued on October 21, 1999 and payable on October 21, 2002 and 2004 in two equal payments, 5.67% and 5.95% annual interest payable annually, respectively	5,000,000
Issued from December 4 to 15, 2000 and payable in December 2005 and 2007 in two equal payments, 5.25% and 5.36% annual interest payable annually, respectively	15,000,000
Issued from January 10 to 24, 2002 and payable in January 2007, 2009 and 2012 in three equal payments, 2.6%, 2.75% and 3% annual interest payable annually, respectively	15,000,000
<b>Domestic secured bonds</b>	
Payable on November 15, 2005 and 2006 in two equal payments, 3.5% to 3.6% annual interest payable annually, guaranteed by financial institution	1,100,000
Payable from November 6, 2000 to 2003 in four equal payments, 6.59% annual interest payable annually, guaranteed by financial institution	750,000
	<u>\$ 40,850,000</u>

As of December 31, 2002, future principal payments under the above bond arrangements are as follows:

<u>Year of Repayment</u>	<u>Amount</u>
2003	\$ 4,750,000
2004	5,000,000
2005	11,050,000
2006	550,000
2007	7,000,000
2008 and thereafter	12,500,000
	<u>\$ 40,850,000</u>

#### 15. OTHER LONG-TERM PAYABLES

TSMC entered into several license arrangements for certain semiconductor patents. Future payments under the agreements as of December 31, 2002 are as follows:

<u>Year</u>	<u>Amount</u>
2003	\$ 1,157,299
2004	1,226,805
2005	987,009
2006	469,189
2007	486,566
2008 and thereafter	1,112,096
	<u>\$ 5,438,964</u>

#### 16. PENSION PLAN

TSMC and VIS have pension plans for all regular employees, which provide benefits based on length of service and average monthly salary for the six month period prior to retirement.

TSMC and VIS contribute an amount equal to 2% of salaries paid every month to Pension Funds (the Funds). The Funds are administered by pension fund monitoring committees (the Committees) and are deposited in the Committees' names in the Central Trust of China. The pension cost of VIS is accrued at an amount equal to 6% of salaries.

The changes in the Funds and accrued pension cost are summarized as follows:

	<u>2002</u>
<b>a. Components of pension cost</b>	
Service cost	\$ 498,112
Interest cost	134,535
Projected return on plan assets	(51,596)
Amortization	(3,758)
	<u>                    </u>
Net pension cost	\$ 577,293
	<u>                    </u>
<b>b. Reconciliation of the fund status of the plan and accrued pension cost</b>	
Benefit obligation	
Vested benefit obligation	\$ 21,294
Nonvested benefit obligation	1,768,532
	<u>                    </u>
Accumulated benefit obligation	1,789,826
Additional benefits based on future salaries	1,433,022
	<u>                    </u>
Projected benefit obligation	3,222,848
Fair value of plan assets	(1,154,754)
	<u>                    </u>
Funded status	2,068,094
Unrecognized net transitional obligation	(142,562)
Unrecognized net gain	625,386
	<u>                    </u>
Accrued pension cost	\$ 2,550,918
	<u>                    </u>
<b>c. Actuarial assumptions</b>	
Discount rate used in determining present values	3.75%
Future salary increase rate	3.00%
Expected rate of return on plan assets	3.75%
d. Contributions to pension fund	\$ 181,980
	<u>                    </u>
e. Payments from pension fund	\$ 5,360
	<u>                    </u>

17. INCOME TAX BENEFIT (EXPENSE)

a. A reconciliation of income tax expense on income before income tax at the statutory rate and current income tax expense on income before tax credits is shown below:

2002



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Income tax expense based on income before income tax at statutory rate	(\$ 6,881,352)
Tax effect of:	
Tax-exempt income	2,526,500
Temporary and permanent differences	(519,490)
	<hr/>
Current income tax expense before income tax credits	(\$ 4,874,342)
	<hr/>

	<u>2002</u>
b. Income tax expense consists of:	
Current income tax expense before income tax credits	(\$ 4,874,342)
Additional 10% tax on the unappropriated earnings	(179,362)
Income tax credits	4,867,236
Other income tax	(29,160)
	<hr/>
Income tax expense	(215,628)
Net change in deferred income tax assets	
Investment tax credits	2,041,014
Loss carryforward	2,588,736
Temporary differences	(6,035,076)
Valuation allowance	(3,721,918)
	<hr/>
Income tax expense	(\$ 5,342,872)
	<hr/>
c. Deferred income tax assets (liabilities) consist of the following:	
Current	
Investment tax credits	\$ 3,807,330
Loss carryforward	1,423,729
Temporary differences	655,371
Valuation allowance	(2,473,490)
	<hr/>
	\$ 3,412,940
	<hr/>
Noncurrent	
Investment tax credits	\$ 23,916,915
Loss carryforward	10,667,199
Temporary differences	(7,871,504)
Valuation allowance	(13,559,479)
	<hr/>
	\$ 13,153,131
	<hr/>

The effective tax rates used in determining the deferred tax asset of TSMC and its affiliates as of December 31, 2002 were 25% to 41%.

d. Integrated income tax information:

	<u>2002</u>
Balance of the imputation credit accounts	
TSMC	\$ 6,650
	<hr/>
VIS	\$ 7,396
	<hr/>

TSMC's and VIS's expected and actual creditable ratios for 2002 were 0.03% and nil, respectively.



The imputation credit allocated to each shareholder shall be based on the balance in the ICA on the date of distribution of dividends; thus the expected creditable ratio for 2002 may be adjusted according to the difference between the expected and actual imputation credit allowed under the regulation.

e. As of December 31, 2002, the unappropriated retained earnings generated up to December 31, 1997, was NT\$0.

f. As of December 31, 2002, TSMC's and VIS's investment tax credits consisted of the following:

Regulation	Items	Total	Remaining	Expire
		Creditable	Creditable	
		Amounts	Amounts	Year
Statute for Upgrading Industries	Loss carryforward	\$ 257,591	\$	2002
		1,423,729	1,423,729	2003
		595,086	595,086	2004
		1,142,696	1,142,696	2006
		1,077,079	1,077,079	2007
		<u>\$ 4,496,181</u>	<u>\$ 4,238,590</u>	
Statute for Upgrading Industries	Purchase of machinery and equipment	\$ 4,691,585	\$	2002
		5,017,733	5,017,733	2003
		8,532,858	8,532,858	2004
		3,210,161	3,210,161	2005
		5,410,244	2,849,715	2006
		<u>\$ 26,862,581</u>	<u>\$ 19,610,467</u>	
Statute for Upgrading Industries	Research and development expenditures	\$ 737,991	\$	2002
		866,375	866,375	2003
		1,996,224	1,996,224	2004
		3,198,606	3,198,606	2005
		1,540,000	1,540,000	2006
		<u>\$ 8,339,196</u>	<u>\$ 7,601,205</u>	
Statute for Upgrading Industries	Personnel training	\$ 10,161	\$	2002
		18,033	18,033	2003
		45,552	45,552	2004
		30,880	30,880	2005
		<u>\$ 104,626</u>	<u>\$ 94,465</u>	
Statute for Upgrading Industries	Reputation setting	\$ 10,457	\$	2002
		803	803	2003
		<u>\$ 11,260</u>	<u>\$ 803</u>	

(Forward)

Regulation	Items	Total	Remaining	Expire
		Creditable	Creditable	
		Amounts	Amounts	Year
Statute for Upgrading Industries	Investments in	\$ 42,580	\$	2002
	important	45,122	45,122	2003
	technology based	201,372	201,372	2004
	enterprise	168,864	168,864	2005
		1,947	1,947	2006
		<u>\$ 459,885</u>	<u>\$ 417,305</u>	

g. The sales from the following expansion and construction of TSMC's and VIS's manufacturing plants is exempt from income tax:

	Tax-Exemption Period
TSMC:	
Expansion of Fab 1 and Fab 2-modules A and B, Fab 3 and Fab 4, and construction of Fab 5	1999 to 2002
Construction of Fab 6	2001 to 2004
VIS:	
First expansion of manufacturing plant	2000 to 2003

h. The tax authorities have examined income tax returns of TSMC through 1999. However, TSMC is contesting the assessment by the tax authority for 1992, 1993, 1996 and 1997.

The tax authorities have examined income tax returns of VIS through 1999.

## 18. SHAREHOLDERS' EQUITY

TSMC has issued 369,019 thousand American Depositary Shares (ADS) on the New York Stock Exchange as of December 31, 2002. The number of common shares represented by the ADSs is 1,845,097 thousand shares (one ADS represents five common shares).

Capital surplus can only be used to offset a deficit under the ROC Company Law. However, the components of capital surplus generated from donations (donated capital) and the excess of the issue price over the par value of capital stock (including the stock issued for new capital, mergers, and the purchase of treasury stock) can be transferred to capital as stock dividends.

TSMC's Articles of Incorporation provide that the following shall be appropriated from annual net income (less any deficit):

- a. 10% legal reserve;
- b. Special reserve in accordance with relevant laws or regulations;

- c. Remuneration to directors and supervisors and bonus to employees equal to 0.3% and at least 1% of the remainder, respectively. Individuals who receive bonus to employees may include employees of affiliated companies and are approved by the board of directors or a representative of the board of directors;
- d. Dividends to holders of preferred shares equal to a 3.5% annual rate, based on the period which the preferred shares have been outstanding;
- e. The appropriation of the remaining balance after the above shall be decided at the shareholders' meeting.

Dividends are distributed in cash, shares of common stock or a combination of cash and common stock. Distribution of profits is preferably made in the form of stock dividend. The total of cash dividends paid in any given year should not exceed 50% of total dividends distributed.

These appropriations of net income shall be approved by the shareholders in the following year and given effect in the financial statements of that year.

The bonus to employees and the remuneration to directors and supervisors appropriated from the earnings of 2001 were approved in the shareholders' meeting on May 7, 2002 as follows:

	Amounts	Shares (Thousand)
Bonus to employees in stock	\$ 1,070,783	107,078
Remuneration to directors and supervisors in cash	133,848	
	<u>\$ 1,204,631</u>	

The shares distributed as a bonus to employees represent 0.64% of TSMC's total outstanding common shares as of December 31, 2001.

The above appropriation of the earnings is consistent with the resolution of the meeting of board of directors dated on March 26, 2002. If the above distributable earnings were both paid in cash and charged against the income of 2001, the basic combined EPS for the year ended December 31, 2001 would decrease from NT\$0.83 to NT\$0.76.

As of January 16, 2003, the appropriation of the earnings of 2002 has not yet been resolved by the board of directors.

The above information associated with the appropriation of bonus to employees and remuneration to directors and supervisors is available at Market Observation System website.



The aforementioned appropriation for legal reserve shall be made until the reserve equals the aggregate par value of TSMC's outstanding capital stock. The reserve can only be used to offset a deficit; or distribute as a dividend when the balance is 50% of the aggregate par value of the outstanding capital stock of TSMC up to the half amount of the reserve balance.

A special reserve equivalent to the debit balance of any account shown in the shareholder's equity section of the balance sheets (except for the recorded costs of treasury stocks held by subsidiaries), other than the deficit, shall be made from unappropriated retained earnings pursuant to existing regulations promulgated by the Securities and Futures Commission. The special reserve is allowed to be appropriated when the debit balance of such accounts are reversed.

The gain on sales or disposal of property, plant and equipment generated prior to 2000, less the applicable income tax, was reclassified to capital surplus as of each year-end. A gain in the amount of NT\$39,282 thousand, less applicable income tax, was recognized and transferred to the capital surplus at the end of 2001 prior to the amended regulations. To comply with the amended regulations, the aforementioned capital surplus was transferred to retained earnings upon the approval of the shareholders' meeting on May 7, 2002. The shareholders also approved the accumulated capital surplus of NT\$127,236 thousand generated from gains prior to 2000 be transferred to retained earnings, after appropriating the required 10% legal reserve.

Under the Integrated Income Tax System that became effective on January 1, 1998, ROC resident shareholders are allowed a tax credit for the income tax paid by TSMC on earnings generated as of January 1, 1998. An Imputation Credit Account (ICA) is maintained by TSMC for such income tax and the tax credit allocated to each shareholder.

TSMC issued 1,300,000 thousand shares of unlisted Series A preferred stock to certain investors on November 29, 2000. The following are the rights of the preferred shareholders and the related terms and conditions:

Preferred shareholders

- a. Are entitled to receive cumulative cash dividends at an annual rate of 3.5%.
- b. Are not entitled to receive any common stock dividends (whether declared out of unappropriated earnings or capital surplus).
- c. Have priority over the holders of common shares to the assets of the Company available for distribution to shareholders upon liquidation or dissolution, however, the preemptive rights to the assets shall not exceed the issue value of the shares.
- d. Have voting rights similar to that of the holders of common shares.
- e. Have no right to convert their shares into common shares. The preferred shares are to be redeemed within thirty months from their issuance. The preferred shareholders have the aforementioned rights and the Company's related obligations remain the same until the preferred shares are redeemed by the Company.

On June 25, 2002, the SFC approved TSMC's Employee Stock Option Plan (the Plan I). Plan I provides qualified employees and non-employees with 100,000 thousand units of option rights with each unit representing one common share of stock. The option rights are valid for 10 years and exercisable at certain percentages subsequent to the second anniversary of issuance. Under the terms of the plan, stock options are granted at an option price equals to the market price of TSMC on the TSE at the date of grant. At December 31, 2002, the maximum number of shares authorized to be granted by TSMC, TSMC-North America and WaferTech under this plan are 70,000 thousand, 16,000 thousand and 14,000 thousand option rights, respectively. The initial grant of options vests 50% two years after the grant date, 75% three years after the grant date and 100% four years after the grant date.

Information with respect to stock option rights activities under Plan I is as follows:

	<b>Outstanding</b>		
	<b>Option Rights</b>		
<b>Option</b>		<b>Weighted</b>	
<b>Rights</b>	<b>Number</b>	<b>Average</b>	
<b>Available</b>	<b>of</b>	<b>Exercise</b>	
<b>For</b>	<b>Option</b>	<b>Price</b>	
<b>Grant</b>	<b>Rights</b>	<b>(NT\$)</b>	
Option rights authorized	100,000		
Options granted	(19,726)	19,726	53
Options exercised			
Options cancelled	357	(357)	53
<b>Balance, December 31, 2002</b>	<b>80,631</b>	<b>19,369</b>	

In 1996, WaferTech adopted an Executive Incentive Plan, which was amended in 1997. Under the 1997 amendment, the Board of Directors approved the Senior Executive Incentive Plan and the Employee Incentive Plan (the Plan II) under which officers, key employees and non-employee directors may be granted option rights. Plan II provides 15,150 thousand option rights. While WaferTech may grant employees option rights that are exercisable at different times or within different periods, it has generally granted option rights which are exercisable on a cumulative basis in annual installments of 25% each on the first, second, third, and fourth anniversaries of the date of grant.

Information with respect to stock option rights activities under Plan II is as follows:

	<b>Outstanding</b>		
	<b>Option Rights</b>		
<b>Option</b>	<b>Number</b>	<b>Exercise</b>	
	<b>of</b>		

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	<b>Rights</b>	<b>Option</b>	<b>Price</b>
	<b>Available</b>	<b>Rights</b>	<b>(US\$)</b>
	<b>For Grant</b>		
	<u>          </u>	<u>          </u>	<u>          </u>
Balance, January 1, 2002			
Options granted	4,608	3,062	1.43
Options exercised		(1,260)	1.22
Options cancelled	216	(216)	1.93
	<u>          </u>	<u>          </u>	
Balance, December 31, 2002	4,824	1,586	
	<u>          </u>	<u>          </u>	

Options granted will expire if not exercised at specified dates between May 2006 and June 2011.

In December 2000, WaferTech implemented a Stock Option Buyback Program ( Buyback ) with its employees. The Buyback program provides employees with the right to sell back all vested stock options and outstanding ownership interests granted under the program to WaferTech. The repurchase price for outstanding ownership interests is US\$6. The repurchase price for vested stock options is US\$6 less the exercise price of the option. As of December 31, 2002, the Company has repurchased 2,476 thousand outstanding ownership interests at a cost of US\$15,466 thousand.

On February 20, 2001 and June 21, 2002, the SFC approved VIS's Employee Stock Option Plan ( 2001 Plan and 2002 Plan ). The 2001 Plan and 2002 Plan provide qualified employees with 16,000 thousand and 70,000 thousand units of option rights; with each unit representing ten and one common shares of stock, respectively. The option rights are valid for 10 years and exercisable at certain percentages subsequent to the second anniversary of issuance. There were 78,239 thousand units of option rights granted as of December 31, 2002.

On January 8, 2003, VIS issued 600,000 thousand shares at a discounted price of NT\$7 per share. As a result of the new capital stock issuance, the aggregate outstanding capital stock increased to 28,000,000 thousand shares with par value of NT\$10 per share.

19. TREASURY STOCK (COMMON STOCK)

(Shares in Thousand)

Purpose of Purchase	Beginning			Ending
	Shares	Increase	Decrease	Shares
<u>Year ended December 31, 2002</u>				
Reclassification of stocks held by subsidiaries from short/long-term investment to treasury stocks	39,270	3,818	1,087	42,001

On January 1, 2002, TSMC reclassified its capital stock held by its subsidiaries with book value of NT\$2,115,695 thousand from short/long-term investments to treasury stock. Proceeds from sales of treasury stock for the year ended December 31, 2002 were NT\$96,501 thousand. The book value and market value of such treasury stock was NT\$1,923,492 thousand and NT\$2,048,164 thousand, respectively. Effective from January 1, 2002, capital stock held by a subsidiary as an investment is recorded as treasury stock with the holder having the same rights as other common shareholders.

## 20. EARNINGS PER SHARE

Earnings per share (EPS) is computed as follows:

	Amounts (Numerator)		Share (Denominator) (Thousand)	EPS (Dollars)	
	Income Before Income Tax	Combined Net Income		Income Before Income Tax	Combined Net Income
<b>December 31, 2002</b>					
Income	\$ 24,499,313	\$ 21,610,291			
Less preferred stock dividends	(455,000)	(455,000)			
Basic earnings per share Income available to common shareholders	\$ 24,044,313	\$ 21,155,291	18,580,700	\$ 1.29	\$ 1.14
Diluted earnings per share Income available to common shareholders	\$ 24,044,313	\$ 21,155,291	18,580,700	\$ 1.29	\$ 1.14

The potential common shares from the employee stock option plan (see Note 17) are not included in the denominator of the diluted earning-per-share computation because such shares result in a non-dilutive per-share amount by using the treasury stock method under the Statement of Financial Accounting Standards No. 24, Earning Per Share .

## 21. RELATED PARTY TRANSACTIONS

The Company and its affiliates engaged in business transactions with the following related parties:

- a. Industrial Technology Research Institute (ITRI), the Chairman of TSMC and VIS is one of its directors
- b. Philips Electronics N.V., (Philips), a major shareholder of TSMC
- c. SSMC, an investee of TSMC
- d. VIS Micro, an investee of VIS's subsidiary (VIS Associates Inc.)
- e. Powerchip Semiconductor Corporation (PSC), VIS is one of its directors

- f. Walsin Advanced Electronics (WAE), VIS is one of its directors
  
- g. Megic Corporation (MC), an investee of VIS

The transactions with the aforementioned parties, in addition to those disclosed in other notes, are summarized as follows:

	2002	
	Amount	%
<u>For the year ended</u>		
Sales		
Philips and its affiliates	\$ 2,909,008	2
ITRI	94,409	
SSMC	7,018	
	<u>\$ 3,010,435</u>	<u>2</u>
Purchase		
SSMC	\$ 2,751,297	2
Operating expense rental		
ITRI	\$ 40,535	
Manufacturing expenses		
Philips technical service fee	\$ 2,849,517	3
WAE	181,258	
ITRI	872	
PSC	760	
	<u>\$ 3,032,407</u>	<u>3</u>
Marketing expenses		
VIS Micro	\$ 21,010	1
ITRI	130	
	<u>\$ 21,140</u>	<u>1</u>
Non-operating income		
SSMC (technical service income mainly)	\$ 126,061	4
PSC	3,682	
WAE	340	
MC	46	
	<u>\$ 130,129</u>	<u>4</u>
<u>At December 31</u>		
Receivables		
Philips and its affiliates	\$ 352,706	93
ITRI	22,974	6
SSMC	5,678	1
MC	439	
PSC	15	
	<u>\$ 381,812</u>	<u>100</u>





(Forward)

	2002	
	Amount	%
Payables		
Philips and its affiliates	\$ 730,847	63
SSMC	391,426	33
WAE	43,111	4
VIS Micro	1,242	
ITRI	711	
PSC	100	
	<u>\$ 1,167,437</u>	<u>100</u>

Transactions with related parties are based on normal selling prices, collection and payment terms except for sales of property, plant and equipment and the technical service fee, which are in accordance with related contracts. In addition, VIS Micro performs certain research and development and marketing activities for VIS and is reimbursed by VIS on the actual expenses incurred plus a 5% mark-up.

## 22. SIGNIFICANT LONG-TERM OPERATING LEASES

TSMC leases land from the Science-Based Industrial Park Administration where its Fab 2 through Fab 14 manufacturing facilities reside. These agreements expire on various dates from March 2008 to December 2020 and have annual rent payments aggregating NT\$225,576 thousand. The agreements can be renewed upon their expiration.

TSMC-North America leases its office premises and certain equipment under non-cancellable operating agreements, which will expire in 2020. TSMC-Europe and TSMC-Japan entered into lease agreements for their office premises, which will expire in 2004. Current annual rent payments aggregate to NT\$115,281 thousand.

VIS leases the sites of its manufacturing plant and parking lot from the Science-Based Industrial Park Administration under agreements which will expire in April 2010 and June 2015 and are renewable upon expiration. Annual rent payments aggregate to NT\$23,812 thousand.

VIS also leases machinery and equipment from GE Capital Taiwan Ltd. under operating lease agreements which will expire in December 2003. Annual rent payments aggregate to NT\$12,710 thousand (US\$366 thousand).

Future remaining lease payments are as follows:

<u>Year</u>	<u>Amount</u>
2003	377,379
2004	367,698
2005	363,633
2006	363,591
2007	360,669
2008 and thereafter	2,197,341
	<u>\$ 4,030,311</u>

### 23. COMMITMENTS AND CONTINGENCIES

The commitments and contingencies of the Company and its subsidiaries as of December 31, 2002 are as follows:

- a. Under a Technical Cooperation Agreement with Philips, as amended on May 12, 1997, TSMC shall pay technical assistance fees as a percentage of net sales, as defined in the agreement, of certain products. The agreement shall remain in force up to July 8, 2007 and thereafter be automatically renewed for successive periods of three years. Under the amended agreement, the fee is subject to deduction by the amounts TSMC pays to any third party for settling any licensing/infringement issue after the first five-year period of the amended agreement, provided that the fee after reduction will not be below a certain percentage of the net selling price.
- b. Subject to certain equity ownership and notification requirements, Philips and its affiliates can avail themselves each year of up to 30% of TSMC's production capacity.
- c. Under a technical cooperation agreement with ITRI, TSMC shall reserve and allocate up to 35% of certain of its production capacity for use by the Ministry of Economic Affairs (MOEA) or any other party designated by the MOEA.
- d. Under several foundry agreements, TSMC shall allocate a portion of its production output for sale to certain major customers from whom guarantee deposits of US\$39,810 thousand had been received as of December 31, 2002.
- e. Under a Shareholders Agreement entered into with Philips and EDB Investments Pte Ltd. on March 30, 1999, the parties formed a joint venture company named Systems on Silicon Manufacturing Company Pte Ltd. (SSMC) for the purpose of constructing an integrated circuit foundry in Singapore, and allow TSMC to invest in 32% of SSMC's capital. TSMC and Philips committed to buy a specific percentage of the production capacity of SSMC. If any party defaults on the agreement and the capacity utilization of SSMC falls below a specific percentage of its total capacity, the defaulting party is required to compensate SSMC for all related unavoidable costs.

- f. TSMC provides technical services to SSMC under a Technical Cooperation Agreement (the Agreement ) entered into on May 12, 1999. TSMC receives compensation for such services computed at a specific percentage of net selling prices of specific products sold by SSMC. The Agreement remains in force for ten years and is automatically renewed for successive periods of five years unless pre-terminated by either party under certain conditions.
- g. Beginning in 2001, TSMC entered into several license arrangements for certain semiconductor patents. The terms of the contracts range from five to ten years with payments to be paid in the form of royalties over the term of the related contracts. TSMC has recorded the related amounts as a liability and a deferred charge to be amortized to cost of sales on a straight-line basis over the shorter of the estimated useful life of the technology or the term of the contract.
- h. Under a Technology Transfer Agreement with National Semiconductor Corporation ( National ) entered into on June 27, 2000, TSMC shall receive payments for license of certain technology to National. The agreement will remain in force for ten years. After the initial expiration date, this agreement will be automatically renewed for successive periods of two years unless pre-terminated by either party under certain conditions. In January 2003, the agreement was amended such that National will discontinue making payments under the original terms and TSMC will discontinue transferring any additional technology. TSMC granted National the option to request additional technology transfers under the same terms and conditions of the original agreement through January 2008.
- i. VIS shall pay royalties under various patent and license agreements as follows:
  - 1) ITRI at a specific percentage of sales of certain products for five years starting from the commercial sale of certain products.
  - 2) Texas Instruments Incorporated at a specific percentage of net sales of certain products for ten years from January 1997.
  - 3) NEC Corporation at a specific amount in six installments from February 1999 to 2003.
  - 4) MITSUBISHI Corporation at a specific amount plus a specific percentage of net sales of certain products within five years from August 1999.
- j. In December 2000, TSMC-North America and WaferTech initiated stock appreciation right programs whereby the employees receive cash bonuses based on the appreciation of the quoted market price of the shares of stock of TSMC. This expense is recognized ratably over the vesting period and adjusted based on period fluctuations in the stock. At December 31, 2002, the exercise price of the stock appreciation right is higher than the market price of TSMC stock; therefore no compensation expense is recognized for the year ended December 31, 2002.
- k. WaferTech caused some contractors to incur additional labor and material costs outside the contracts. WaferTech recorded a reserve of US\$3,000 thousand during 2002 for a litigation arising from a charge by certain contractors.

1. Unused letters of credit as of December 31, 2002 were NT\$6,480 thousand, US\$5,502 thousand, ¥51,000 thousand, Euro 520 thousand and S\$85 thousand.

24. ADDITIONAL DISCLOSURES

The following are the additional disclosures required by the SFC for TSMC and its affiliates:

- a. Financing provided: Please see Table 1 attached;
- b. Endorsement guarantee provided: Please see Table 2 attached;
- c. Marketable Securities held: Please see Table 3 attached;
- d. Marketable securities acquired or disposed of at costs or prices of at least NT\$100 million or 20% of paid-in capital: Please see Table 4 attached;
- e. Acquisition of individual real estate properties at costs of at least NT\$100 million or 20% of paid-in capital: Please see Table 5 attached;
- f. Disposal of individual real estate properties at prices of at least NT\$100 million or 20% of paid-in capital: None;
- g. Total purchases from or sales to related parties of at least NT\$100 million or 20% of paid-in capital: Please see Table 6 attached;
- h. Receivable from related parties amounting to at least NT\$100 million or 20% of paid-in capital: Please see Table 7 attached; and
- i. Names, locations, and related information of investees on which the Company exercises significant influence: Please see Table 8 attached.
- j. Financial instrument transactions:
  - 1) Derivative financial instruments

The relevant information on derivative financial instruments entered into by TSMC and its affiliates are as follows:

- a) Forward exchange contracts as of December 31, 2002

<u>Contract</u>	<u>Currency</u>	<u>Contract</u>	<u>Fair Value</u>	<u>Settlement Date</u>	<u>Maturity</u>
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		Amount <u>(Thousand)</u>	<u>(Thousand)</u>			Amount <u>(Thousand)</u>
<u>TSMC</u>						
Sell	USD	\$715,000	NT\$ 24,874,483	Jan. 2, 2003	Feb. 24, 2003	NT\$ 24,886,765
Buy	EUR	89,000	NT\$ 3,231,707	Jan. 15, 2003	Mar. 14, 2003	NT\$ 3,234,260
Buy	JPY	¥4,274,850	NT\$ 1,249,159	Jan. 6, 2003	Jan. 15, 2003	NT\$ 1,250,394
<u>VIS</u>						
Buy	USD	\$1,000	NT\$ 1,198	Dec. 9, 2002	Jan. 14, 2003	JP¥ 122,760

As of December 31, 2002, receivables from forward exchange contracts (included in other current assets account) aggregate to NT\$200,786 thousand, and payables from forward exchange contracts (included in other current liabilities account) aggregate to NT\$17,538 thousand. The net exchange gain for the year ended December 31, 2002 was NT\$1,557,942 thousand.

The net assets and liabilities hedged by the above forward exchange contracts are as follows:

	<b>Amount</b>
	<b>(Thousand)</b>
Accounts receivable	US\$ 487,905
Accounts payable	JP¥ 4,466,733
Accounts payable	EUR 49,026

b) Interest rate swaps

The Company entered into interest rate swap contracts to hedge exposures from rising interest rates on its floating rate long-term loans. Interest expense on these transactions for the year ended December 31, 2002 were NT\$261,107 thousand. Outstanding contracts as of December 31, 2002 were as follows:

<b>Contract Date</b>	<b>Period</b>	<b>Amount</b>
		<b>(Thousand)</b>
April 28, 1998	May 21, 1998 May 21, 2003	NT\$ 2,000,000
April 29, 1998	May 21, 1998 May 21, 2003	NT\$ 1,000,000
June 26, 1998	June 26, 1998 June 26, 2003	NT\$ 1,000,000
June 26, 1998	July 6, 1998 July 6, 2003	NT\$ 1,000,000
July 1, 1999	July 1, 1999 June 28, 2004	US\$11,429

c) Option contracts

The Company entered into foreign currency option contracts to hedge risks of exchange rate fluctuations arising from its anticipated U.S. dollar cash receipts on export sales and its European and Yen currency obligations for purchases of machinery and equipment.

Outstanding option contracts as of December 31, 2002 were as follows:

		<b>Contract</b>						
		<b>Amount</b>	<b>Carrying Fair Value</b>					
<b>Type</b>	<b>Contract</b>	<b>Currency</b>	<b>(Thousand)</b>	<b>Value</b>	<b>(Thousand)</b>	<b>Strike Price</b>	<b>Contract</b>	
<hr/>								

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European	Call option written	USD	\$ 230,000	\$	(\$ 404,884)	32.78-33.22	Jan. 9, 2003	Feb. 25, 2003
						(US\$/NT\$)		
European	Call option written	USD	\$ 10,000		(3,652)	119.2 (US\$/JPY)	Jan. 30, 2003	Feb. 27, 2003
European	Put option written	EUR	10,000		(1,596)	1.017 (US\$/EUR)	Jan. 30, 2003	Feb. 27, 2003



For the year ended December 31, 2002, TSMC recognized premium income of NT\$228,030 thousand and premium expenses of NT\$647,543 thousand.

d) Cross currency swaps

The Company enters into currency swap contracts with banks to hedge exposure on foreign currency exchange rate fluctuations on various foreign currency transactions.

Outstanding currency swap contract as of December 31, 2002 is as follows:

Currency	Contract		Settlement Date
	Amount (Thousand)	Fair Value (Thousand)	
US\$	US\$ 1,000	NT\$ 206	Dec. 26 2002 Jan. 16, 2003

As of December 31, 2002, the prepayments from currency swap (included in other current liabilities account) aggregate to NT\$97 thousand. The currency swap contract was used to hedge a US dollar accounts payable with a carrying value of NT\$2,004 thousand.

e) Transaction risk

- i) Credit risk. The banks, which are the counter-parties to the foregoing derivative financial instruments, are reputable financial institutions. Management believes its exposures related to the potential default by those counter-parties are low.
- ii) Market price risk. All derivative financial instruments are intended as hedges for fluctuations in currency exchanges rates on the Company's foreign currency denominated receivables or payables, and interest rate fluctuations on its floating rate long-term loans. Gains or losses from forward exchange contracts are likely to be offset by gains or losses from receivables and payables. Interest rate risks are also managed as the expected interest expense on long-term loans is fixed. Thus, market prices are believed to be minimal.
- iii) Liquidity and cash flow requirements. The cash flow requirements on forward contracts are limited to the net differences between the current exchange rates and the contracted forward rates at the date of settlement. The cash flow requirements for interest rate swap contracts is limited to the amounts payable arising from the differences in the rates. In addition, options may not be exercised in the event the strike price is higher than the related market price at the exercise date. Management believes that the foregoing cash flow requirements are not material.

## 2) Fair value of financial instruments

	Carrying	
	Amount	Fair Value
<u>Non-derivative financial instruments</u>		
Assets		
Cash and cash equivalents	\$ 73,165,758	\$ 73,165,758
Short-term investments	170,012	2,455,582
Receivables from related parties	381,812	381,812
Accounts receivable	20,192,463	20,192,463
Long-term investments	11,349,920	11,550,340
Refundable deposits	45,245	45,245
Liabilities		
Short-term bank loans	1,283,000	1,283,000
Commercial paper	1,080,000	1,080,000
Payables to related parties	1,167,437	1,167,437
Notes and accounts payable	5,786,264	5,786,264
Payables to contractors and equipment Suppliers	14,414,639	14,414,639
Bonds (includes current portion)	40,850,000	41,597,405
Long-term bank loans (includes current portion)	25,893,919	25,893,919
Other long-term payables (includes current portion)	5,438,964	5,438,964
Guarantee deposits	1,399,846	1,399,846
<u>Derivative financial instruments</u>		
Forward exchange contracts (sell)	143,702	139,913
Forward exchange contracts (buy)	38,369	26,089
Interest rate swaps	(23,994)	(164,342)
Currency swaps	97	206
Options	(50,273)	(410,132)

Fair values of financial instruments were determined as follows:

- a) Short-term financial instruments carrying values.
- b) Short-term investments market values.
- c) Long-term investments market value for traded companies and net equity value for non-traded companies.
- d) Refundable deposits, guarantee deposits and other long-term liabilities carrying values.
- e) Long-term bank loan Fair values of long-term bank loans are their carrying values as they use floating interest rate.

- f) Long-term liabilities based on forecasted cash flows discounted at interest rates. Bonds payable is discounted to present value. Fair values of other long-term liabilities are also their carrying values as they use floating interest rates.
- g) Derivative financial instruments based on bank quotations.

The fair values of non-financial instruments were not included in the fair values disclosed above. Accordingly, the sum of the fair values of the financial instruments listed above does not represent the fair value of the Company.

3) Investment in Mainland China:

TSMC filed an investment project with the Investment Commission of MOEA to establish a foundry in mainland China. As of January 16, 2003, the foregoing project has not been approved by the authority.

25. SEGMENT FINANCIAL INFORMATION

a. Geographic information:

	Overseas	Domestic	Adjustments and Elimination	Combined
Sales to unaffiliated customers	\$ 95,774,432	\$ 71,028,217	\$	\$ 166,802,649
Transfers between geographic areas	9,537,846	98,240,822	(107,778,668)	
<b>Total sales</b>	<b>\$ 105,312,278</b>	<b>\$ 169,269,039</b>	<b>(\$ 107,778,668)</b>	<b>\$ 166,802,649</b>
<b>Gross profit</b>	<b>(\$ 19,865)</b>	<b>\$ 48,639,761</b>	<b>\$ 128,158</b>	<b>\$ 48,748,054</b>
Operating expenses				(21,354,715)
Non-operating income				3,303,020
Non-operating expenses				(6,197,047)
<b>Income before income tax</b>				<b>\$ 24,499,312</b>
Minority interest income				\$ 2,453,851
<b>Identifiable assets</b>	<b>\$ 75,840,416</b>	<b>\$ 358,845,308</b>	<b>(\$ 33,567,344)</b>	<b>\$ 401,118,380</b>
Long-term investments				11,349,920
<b>Total assets</b>				<b>\$ 412,468,300</b>

b. Gross export sales

Area	
North Americas	\$ 96,254,239
Asia and others	42,167,270
Europe	9,464,008
	\$ 147,885,517

The export sales information is presented by billed regions.

c. Major customer

Customers with sales greater than 10% of the total sales are as follows:

Customers	2002	
	Amount	%
A Customer	\$ 32,769,054	20

TABLE 1

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

## FINANCING PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Financing Name	Counter-party	Financial Statement Account	Maximum	Ending Balance	Interest Rate	Financing Reasons	Reasons for Transaction	Allowance for Bad Debt	Collateral	Financing Limit for Each Borrowing Company	Financing
			Balance for the Period	(US\$ in Thousand)					(US\$ in Thousand)		Item Value
TSMC International	TSMC Technology Inc.	Other receivables	\$ 536,372	\$ 536,372	4.25%	2	\$ Operating capital	\$	\$	N/A	\$ 34,334,85
			(US\$ 15,434)	( 15,434) US\$							(US\$ 987,90

(Note 2)

Note 1: The No. 2 represents short-term financing.

Note 2: Not exceeding the issued capital of the Company.

TABLE 2

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICODUCOTR CORPORATION

## ENDORSEMENT/GUARANTEE PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Endorsement/ Guarantee No.	Endorsement/ Guarantee Provider	Counter-party		Limits on Each Counter-party Endorsement/ Guarantee Amounts	Maximum Balance for the Period (US\$ in Thousand)	Ending Balance (US\$ in Thousand)	Value of Collateral Property, Plant and Equipment (Note 3)	Ratio of Accumulated Amount of Collateral to Net Equity of the Latest Financial Statement	Maximum Collateral/Guarantee Amounts Allowable (Note 1)
		Name	Nature of Relationship (Note 2)						
0	TSMC	TSMC Development Inc.	3	(Note 4)	\$ 9,313,804 ( 268,000) US\$	\$ 6,950,600 ( 200,000) US\$		2.37%	\$ 59,768,660
		TSMC North America	2		1,390,120 ( 40,000) US\$	1,390,120 ( 40,000) US\$		0.47%	
		WaferTech	3		15,291,320 ( 440,000) US\$	15,291,320 ( 440,000) US\$		5.21%	

Note 1: 30% of the issued capital of the Company.

Note 2: The No. 2 represents a subsidiary in which TSMC holds directly over 50% of the equity interest.  
The No. 3 represents an investee in which TSMC holds directly and indirectly over 50% of the equity interest.

Note 3: Promissory notes for collateral.

Note 4: Not exceeding 10% of the issued capital of the Company, and also limited to the issued capital of the transaction entity, unless otherwise approved by Board of directors.

TABLE 3

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

MARKETABLE SECURITIES HELD

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	December 31, 2002				Note	
				Shares (Thousand)	Carrying Value		Percentage of Ownership		Market Value or Net Asset Value (US\$ in Thousand)
					(US\$ in Thousand)				
MC	<u>Stock</u>								
	TSMC North America	Subsidiary	Long-term investment	11,000	\$ 173,601	100	\$ 921,883	The treasury stocks in amount NT\$748,282 thousand are deducted from the carrying value.	
	TSMC Europe	Subsidiary	Long-term investment		13,670	100	13,670		
	TSMC Japan	Subsidiary	Long-term investment	6	94,258	100	94,258		
	VIS	Investee	Long-term investment	556,133	2,415,297	25	4,326,719	The carrying value does not include prepayment for subscribed stock of NT\$849,300 thousand.	
	TSMC International	Subsidiary	Long-term investment	987,968	22,265,157	100	22,265,157		
	Chi Cherng Investment	Investee	Long-term investment		41,894	36	501,179	The treasury stocks in amount NT\$459,285 thousand are deducted from the carrying value.	
	Hsin Ruey Investment	Investee	Long-term investment		39,815	36	500,048	The treasury stocks in amount NT\$460,233 thousand are deducted from the carrying value.	
	TSMC Partners	Subsidiary	Long-term investment	300	3,753,733	100	3,940,495	The treasury stocks in amount NT\$255,692 thousand are deducted from the carrying value.	
	SSMC	Investee	Long-term investment	382	3,136,115	32	3,136,115		
	Emerging Alliance	Subsidiary	Long-term investment		767,239	99	767,239		
	Taiwan Mask Corp.		Long-term investment	8,794	32,129	2	160,574		
	United Technology Co., Ltd.		Long-term investment	16,783	193,584	11	280,931		
	Shin-Etsu Handotai Taiwan Co., Ltd.		Long-term investment	10,500	105,000	7	137,355		
	W.K. Technology Fund IV		Long-term investment	5,000	50,000	2	59,866		
	Ya Xin Technology	Subsidiary	Long-term investment	34,125	341,250	100	341,250		
	Hon Tung Ventures Capital		Long-term investment	8,392	83,916	10	71,216		
	Amkor Technology		Long-term investment	505	280,748		89,866		
	Monolithic System Tech.		Long-term investment	470	104,289	2	214,949		

(Forward)





		December 31, 2002						
Field Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value		Market Value or Net Asset Value		Note
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)	
	Crimson Asia Capital		Long-term investment	N/A	\$ 41,988	N/A	\$ 41,988	
	Horizon Ventures		Long-term investment	N/A	195,452	N/A	195,452	
C North America	<u>Stock</u>							
	TSMC	Parent company	Long-term investment	12,692	748,282		610,434	
Cherng Investment	<u>Stock</u>							
	TSMC	Parent company	Short-term investment	12,738	459,285		612,636	
	<u>Certificate</u>							
	Hsin Ruey Investment	Major shareholder	Long-term investment		900,109	64	900,109	
Ruey Investment	<u>Stock</u>							
	TSMC	Parent company	Short-term investment	12,762	460,233		613,782	
	<u>Certificate</u>							
	Chi Cherng Investment	Major shareholder	Long-term investment		902,137	64	902,137	
C International	<u>Stock</u>							
	InveStar Semiconductor Development Fund, Inc.	Subsidiary	Long-term investment	45,000	US\$ 44,634	97	US\$ 44,634	
	InveStar Semiconductor Development Fund (II), Inc.	Subsidiary	Long-term investment	51,300	US\$ 43,179	97	US\$ 43,179	
	TSMC Development, Inc.	Subsidiary	Long-term investment	1	US\$ 307,094	100	US\$ 307,094	
	TSMC Technology, Inc.	Subsidiary	Long-term investment	1	US\$ 2,321	100	US\$ 2,321	
	3DFX Interactive, Inc.		Long-term investment	68				
	<u>Stock</u>							
	VIS Associates, Inc.	Subsidiary	Long-term investment	41,070	1,193,891	100	1,193,891	
	PowerChip Semiconductor, Inc.	Investee	Long-term investment	191,671	2,100,716	7	2,100,716	
	Etron Technology, Inc.	Investee	Long-term investment	4,859	101,839	2	101,839	
	Walsin Technology, Inc.	Investee	Long-term investment	34,551	302,559	8	302,559	
	MEGIC Corporation	Investee	Long-term investment	16,500	177,000	9	156,819	
	Form Factor, Inc.	Investee	Long-term investment	267	64,360	1	64,360	The amount is shown in
								carrying value.
	United Technology Co., Ltd.	Investee	Long-term investment	3,357	38,716	2	56,206	
	<u>Stock</u>							
Associates								
	VIS Investment Holding, Inc.	Subsidiary	Long-term investment	63	US\$ 397	100	US\$ 397	
	<u>Equity</u>							
	Silicon Valley Equity Fund		Long-term investment		US\$ 7,317	34	US\$ 7,386	
	Silicon Valley Equity Fund II		Long-term investment		US\$ 5,355	14	US\$ 5,355	

(Forward)

		December 31, 2002							
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value			Market Value or Net Asset Value		Note
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)		
	<u>Equity certificate</u>								
	ABN AMRO Bank		Long-term investment	3,648	US\$ 817		US\$ 817		
	<u>Fund</u>								
	Grand Palace Trust		Long-term investment		US\$ 2,719	100	US\$ 2,719		
VIS Investment Holding, Inc.	<u>Stock</u>								
	VIS Micro, Inc.	Subsidiary	Long-term investment	200	US\$ 279	100	US\$ 279		
TSMC Development, Inc.	<u>Stock</u>								
	WaferTech	Subsidiary	Long-term investment		US\$ 326,609	99	US\$ 326,609		
TSMC Partners	<u>ADR</u>								
	TSMC	Parent company	Short-term investment	762	US\$ 7,357		US\$ 6,080		
InveStar Semiconductor Development Fund Inc.	<u>Stock</u>								
	Marvell Technology Group Ltd.		Short-term investment	3,413	US\$ 3,350		US\$ 69,181		
	Silicon Laboratories		Short-term investment	9	US\$ 287		US\$ 202		
	WGRD		Short-term investment	104	US\$ 625		US\$ 635		
	Programmable Microelectronics, (Taiwan) Inc.		Long-term investment	1,580	US\$ 1,566	3	US\$ 1,566		
	Divio, Inc.		Long-term investment	30	US\$ 3		US\$ 3		
	Global Testing Corp.		Long-term investment	13,268	US\$ 5,176	10	US\$ 5,176		
	Chipstrate Technologies, Inc.		Long-term investment	6,660	US\$ 300	9	US\$ 300		
	Richtek Technology Holding Corp.		Long-term investment	1,023	US\$ 346	6	US\$ 346		
	Advanced Power Electronics, Corp.		Long-term investment	2,750	US\$ 1,345	6	US\$ 1,345		
	<u>Preferred stock</u>								
	Integrated Memory Logic, Inc.		Long-term investment	1,831	US\$ 1,809	12	US\$ 1,809		
	Divio, Inc.		Long-term investment	667	US\$ 500	4	US\$ 500		
	SiRF Technology Holdings, Inc.		Long-term investment	306	US\$ 1,333	1	US\$ 1,333		
	Capella Microsystems, Inc.		Long-term investment	300	US\$ 481	8	US\$ 481		
	Sensory, Inc.		Long-term investment	1,404	US\$ 625	5	US\$ 625		
	Equator Technologies, Inc.		Long-term investment	300	US\$ 258	1	US\$ 258		
	LightSpeed Semiconductor Corporation		Long-term investment	2,252	US\$ 1,339	3	US\$ 1,339		
	Tropian, Inc.		Long-term investment	1,758	US\$ 2,334	3	US\$ 2,334		
	Sonics, Inc.		Long-term investment	2,686	US\$ 3,530	5	US\$ 3,530		
	Atheros Communications, Inc.		Long-term investment	1,607	US\$ 3,593	3	US\$ 3,593		
	NanoAmp Solutions, Inc.		Long-term investment	541	US\$ 853	3	US\$ 853		
	FormFactor, Inc.		Long-term investment	267	US\$ 2,000	1	US\$ 2,000		
	Monolithic Power Systems, Inc.		Long-term investment	2,521	US\$ 2,000	12	US\$ 2,000		

(Forward)

December 31, 2002

Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value		Market Value or Net Asset Value		Note
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)	
	Memsic, Inc.		Long-term investment	2,727	US\$ 1,500	12	US\$ 1,500	
	Reflectivity, Inc.		Long-term investment	1,064	US\$ 1,192	4	US\$ 1,192	
	Signia Technologies, Inc.		Long-term investment	3,000	US\$ 300	8	US\$ 300	
	Match Lab, Inc.		Long-term investment	1,875	US\$ 1,500	9	US\$ 1,500	
	HiNT Corporation		Long-term investment	1,000	US\$ 1,000	6	US\$ 1,000	
	Ordius, Inc. (Creosys, Inc.)		Long-term investment	1,500	US\$ 450	8	US\$ 450	
	Incentia Design Systems, Inc.		Long-term investment	286	US\$ 500	2	US\$ 500	
	IP Unity		Long-term investment	1,008	US\$ 1,636	2	US\$ 1,636	
InveStar Semiconductor Development Fund (II) Inc.	<u>Stock</u>							
	WGRD		Short-term investment	105	US\$ 630		US\$ 640	
	Procoat Technology		Long-term investment	3,500	US\$ 1,942	12	US\$ 1,942	
	Richtek Technology Corporation		Long-term investment	845	US\$ 1,006	3	US\$ 1,006	
	Programmable Microelectronics (Taiwan), Inc.		Long-term investment	487	US\$ 140	1	US\$ 140	
	Auden Technology MFG. Co., Ltd.		Long-term investment	953	US\$ 1,117	4	US\$ 1,117	
	Geo Vision, Inc.		Long-term investment	180	US\$ 129	2	US\$ 129	
	EoNEX Technologies, Inc.		Long-term investment	40	US\$ 2,024	6	US\$ 2,024	
	Conwise Technology Co., Ltd.		Long-term investment	2,800	US\$ 1,930	14	US\$ 1,930	
	Yi Yang Technology		Long-term investment	2,800	US\$ 967	9	US\$ 967	
	Goyatek Technology Inc.		Long-term investment	1,740	US\$ 1,787	8	US\$ 1,787	
	Trendchip Technologies Corp.		Long-term investment	2,000	US\$ 864	5	US\$ 864	
	<u>Preferred stock</u>							
	Memsic, Inc.		Long-term investment	2,289	US\$ 1,560	11	US\$ 1,560	
	OEpic, Inc.		Long-term investment	2,696	US\$ 1,240	7	US\$ 1,240	
	Equator Technologies, Inc.		Long-term investment	770	US\$ 452	1	US\$ 452	
	NanoAmp Solutions, Inc.		Long-term investment	250	US\$ 1,000	1	US\$ 1,000	
	Signia Technologies, Inc.		Long-term investment	1,500	US\$ 150	4	US\$ 150	
	Advanced Analogic Technology, Inc.		Long-term investment	948	US\$ 1,261	2	US\$ 1,261	
	Monolithic Power Systems, Inc.		Long-term investment	804	US\$ 1,946	4	US\$ 1,946	
	Ralink Technologies, Inc.		Long-term investment	1,833	US\$ 1,500	6	US\$ 1,500	
	Sonics, Inc.		Long-term investment	3,082	US\$ 3,082	5	US\$ 3,082	
	Newport Opticom, Inc.		Long-term investment	1,157	US\$ 810	9	US\$ 810	
	Silicon Data, Inc.		Long-term investment	2,000	US\$ 1,000	7	US\$ 1,000	
	Reflectivity, Inc.		Long-term investment	1,596	US\$ 1,500	6	US\$ 1,500	
	Capella Microsystems, Inc.		Long-term investment	800	US\$ 200	4	US\$ 200	
	Angstrom Systems, Inc.		Long-term investment	1,567	US\$ 750	7	US\$ 750	
	Tropian, Inc.		Long-term investment	1,464	US\$ 2,000	2	US\$ 2,000	
	SiRF Technology Holdings, Inc.		Long-term investment	20	US\$ 131		US\$ 131	
	LeadTONE Wireless, Inc.		Long-term investment	680	US\$ 238	6	US\$ 238	
	Match Lab, Inc.		Long-term investment	313	US\$ 250	2	US\$ 250	
	eBest!, Inc.		Long-term investment	185	US\$ 97	1	US\$ 97	
	Kilopass Technologies, Inc.		Long-term investment	3,887	US\$ 2,000	18	US\$ 2,000	

(Forward)

		December 31, 2002							
Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value		Market Value or Net Asset Value		Note	
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)		
	<u>Bond</u>								
	eBest!, Inc.		Long-term investment		US\$ 24		US\$ 24		
	<u>Stock</u>								
	Global Investment Holding, Inc.	Investee	Long-term investment	10,000	\$ 100,000	6	\$ 100,000		
	<u>Preferred stock</u>								
	Quake Technologies, Inc.		Long-term investment	467	US\$ 1,000	1	US\$ 1,000		
	Pixim, Inc.		Long-term investment	833	US\$ 2,500	3	US\$ 2,500		
	Newport Opticom, Inc.		Long-term investment	962	US\$ 1,000	6	US\$ 1,000		
	NetLogic Microsystems, Inc.		Long-term investment	602	US\$ 1,850	1	US\$ 2,932		
	Ikanos Communication, Inc.		Long-term investment	1,741	US\$ 1,500	2	US\$ 1,500		
	Quicksilver Technology, Inc.		Long-term investment	1,475	US\$ 2,338	4	US\$ 2,338		
	Litchfield Communications		Long-term investment	3,799	US\$ 1,000	6	US\$ 1,000		
	Mosaic Systems		Long-term investment	2,481	US\$ 500	6	US\$ 500		
	Accelerant Networks		Long-term investment	441	US\$ 1,000	1	US\$ 1,000		
	Zenesis Technologies		Long-term investment	861	US\$ 500	4	US\$ 500		
	Reflectivity, Inc.		Long-term investment	1,596	US\$ 1,500	5	US\$ 1,500		
	Iridigm Display		Long-term investment	305	US\$ 502	2	US\$ 502		
	Spreadtrum		Long-term investment		US\$ 1,000		US\$ 1,000	Prepayment for subscribed	
	XHP Microsystem		Long-term investment	2,279	US\$ 750	6	US\$ 750		

TABLE 4

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

and e of table rity	Financial Statement Account	Counter-party	Nature of Relationship	Beginning Balance		Acquisition		Disposal			Gain (Loss) on Disposal (US\$ in Thousand)	Sh (Tho
				Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Carrying Value (US\$ in Thousand)		
	Long-term investment	SSMC	Investee	301	\$ 2,907,967	81	\$ 1,421,846	\$	\$	\$		
onal	Long-term investment	TSMC-BVI	Subsidiary	779,968	19,987,814	208,000	7,280,000					
ic Tech. g	Long-term investment	Monolithic System Tech.	Investee			470	104,289					
	Long-term investment	Emerging Alliance Fund, LP	Subsidiary		741,617		168,615					
	Long-term investment	VIS	Investee	556,133	3,377,526	121,338	849,360					
gy	Long-term investment	Ya Xin Technology	Subsidiary			(Note 2 ) 34,125	(Note 2 ) 341,250					
ment,	Long-term investment	TSMC Development, Inc.	Subsidiary	1	US\$ 201,231		US\$ 208,000					
ductor	Long-term investment	InveStar Semiconductor	Subsidiary	45,000	US\$ 45,766	6,300	US\$ 6,300					
ment Inc. ch	Long-term investment	Development Fund (II) Inc. WaferTech	Subsidiary		US\$ 226,541		US\$ 120,000					
d Duo	Short-term investment			26,278	350,000	33,108	450,000	59,386	807,970	800,000	7,970	
						70,860	850,000	70,860	853,974	850,000	3,974	

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	Short-term investment									
ROC	Short-term investment	25,923	350,000			25,923	356,458	350,000	6,458	
	Short-term investment			3,814	580,000	3,814	582,977	580,000	2,977	
	Short-term investment			43,630	550,000	43,630	554,407	550,000	4,407	
Chian	Short-term investment	28,409	400,000			28,409	402,869	400,000	2,869	
URO	Long-term investment	23,168	US\$ 10,047	1,194	US\$ 536	20,714	US\$ 14,806	US\$ 9,766	US\$ 5,706	

(Note 4)

(Note 3)

Note 1: The ending balance included the recognition of the investment income (loss) by the equity method and the accumulated translation adjustment.

Note 2: Prepayment for the subscribe stock.

Note 3: This equity certificate had been reclassified from short-term investment to long-term investment starting from July 2002.

Note 4: The total book value for sale is US\$9,100 thousand and with the unrealized loss on long-term investment is US\$666 thousand.

TABLE 5

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

ACQUISITION OF INDIVIDUAL REAL ESTATE AT COSTS OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Types of Property	Transaction Date	Transaction Amount	Payment Term	Counter-party	Nature of Relationship	Prior Transaction of Related Counter-party				Price Reference	Purpose of Acquisition	Other
							Owner	Relationship	Transfer Date	Amount			
IC	Fab 12	June 19, 2002	\$263,000	By the construction progress	Mandartech Interiors, Inc.		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
		July 11, 2002	137,402	By the construction progress	UISC		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
		August 6, 2002	124,775	By the construction progress	Meissner & Wurst		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
		November 15, 2002	244,654	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
	Fab 14	April 9, 2002	135,000	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
		April 12, 2002	109,880	By the construction progress	Great Construction System, Inc.		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N
		June 24, 2002	984,995	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding	Manufacturing purpose	N



TABLE 6

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

## TOTAL PURCHASE FROM OR SALE TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable		Note
			Purchase/Sales	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total	
TSMC	TSMC North America	Subsidiary	Sales	\$94,433,401	57	30 days from invoice date	None	None	\$ 9,739,236	96	
	Philips and its affiliates	Major shareholder	Sales	2,909,008	2	30 days from invoice date	None	None	352,706	3	
	WaferTech	Subsidiary	Purchase	9,955,154	41	30 days from monthly closing date	None	None	(617,751)	(25)	
	VIS	Investee	Purchase	3,469,198	14	45 days from monthly closing date	None	None	(653,876)	(26)	
	SSMC	Investee	Purchase	2,751,297	11	30 days from invoice date	None	None	(391,426)	(16)	

TABLE 7

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Ending Balance	Turnover Rate	Amount	Overdue	Amounts Received	
						Action Taken	in Subsequent Period	Allowance for Bad Debts
TSMC	TSMC North America	Subsidiary	\$ 9,739,236	18 days	\$ 3,709,733	Accelerate demand on accounts receivable	\$ 2,155,511	\$
	Philips and its affiliates	Major shareholder	352,706	29 days	55,050	Accelerate demand on accounts receivable	69,090	

TABLE 8

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND VANGUARD INTERNATIONAL SEMICONDUCTOR CORPORATION

NAMES, LOCATIONS, AND RELATED INFORMATION OF INVESTEEES ON WHICH THE COMPANY EXERCISES SIGNIFICANT INFLUENCE

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2002			Net Income (Loss) of the Investee	Investment Gain (Loss) (Note 2)
			December 31, 2002	Dec. 31, 2001	Shares (Thousand)	Percentage of Ownership	Carrying Value (Note 1)		
IC North America	San Jose, California, U.S.A.	Marketing and engineering support	\$ 333,178	\$ 333,178	11,000	100	\$ 173,601	\$ 140,654	\$ 139,654
IC Europe	Amsterdam, The Netherlands	Marketing and engineering support	2,960	2,960		100	13,670	(1,615)	13,670
IC Japan	Yokohama, Japan	Marketing and engineering support	83,760	83,760	6	100	94,258	3,145	6,145
	Hsin-Chu, Taiwan	IC Design and manufacturing	6,503,640	6,503,640	556,133	25	2,415,297	(3,250,831)	(82,831)
			(Note 3)				(Note 3)		
IC International	Tortola, British Virgin Islands	Investment	31,445,780	24,165,780	987,968	100	22,265,157	(4,714,203)	(4,714,203)
IC Chengde Investment	Taipei, Taiwan	Investment	300,000	100,000		36	41,894	13,821	13,821
IC Ruyi Investment	Taipei, Taiwan	Investment	300,000	100,000		36	39,815	12,533	6,533
IC Partners	Tortola, British Virgin Islands	Investment	10,350	10,350	300	100	3,753,733	924,362	993,362
IC Singapore	Singapore	Manufacturing wafers	6,408,190	4,986,344	382	32	3,136,115	(3,609,569)	(1,153,454)
IC Strategic Alliance	Cayman Islands	Investment	1,005,660	837,045		99	767,239	(142,865)	(142,865)
IC Vanguard Technology	Taipei, Taiwan	Electronic manufacturing	341,250		34,125	100	341,250		

Note 1: The treasury stocks are not deducted from the carrying values.

Note 2: The gain from sales of treasury stock of NT\$43,036 thousand, which was transferred to capital surplus, was not deducted from the investment gain (loss).

Note 3: The amount has not included the prepayment for the subscribed shares of 121,338 shares with total amount of NT\$849,360 thousand.



**Taiwan Semiconductor Manufacturing Company Ltd.**

**and Subsidiaries**

**Consolidated Financial Statements as of December 31, 2002 and 2001**

**Together with Independent Auditors Report**

Readers are advised that the original version of these financial statements is in Chinese. This English translation is solely for the readers convenience. If there is any conflict between these financial statements and the Chinese version or any difference in the interpretation of the two versions, the Chinese-language financial statements shall prevail.

English Translation of a Report Originally Issued in Chinese

Independent Auditors' Report

January 16, 2003

The Board of Directors and the Shareholders

Taiwan Semiconductor Manufacturing Company Ltd.

We have audited the accompanying consolidated balance sheets of Taiwan Semiconductor Manufacturing Company Ltd. and subsidiaries (the Company) as of December 31, 2002, and 2001, and the related consolidated statements of income, changes in shareholders' equity and cash flows for the years then ended. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with Regulations for Auditing of Financial Statements by Certified Public Accountants, and auditing standards generally accepted in the Republic of China. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of Taiwan Semiconductor Manufacturing Company Ltd. and subsidiaries as of December 31, 2002 and 2001, and the results of their operations and their cash flows for the years then ended, in conformity with the Guidelines for Securities Issuers' Financial Reporting and generally accepted accounting principles in the Republic of China.

As disclosed in Note 3 to the financial statements, the Company adopted Statement of Financial Accounting Standards ( SFAS ) No. 30, Accounting for Treasury Stock on January 1, 2002. SFAS No. 30 requires a parent company to record stock held by its subsidiary as treasury stock. The adoption of SFAS No. 30 resulted in the decrease of long-term investments and simultaneous increase of the book value of treasury stock by NT\$1,923,492 thousand as of December 31, 2002. Furthermore, net income increased by NT\$25,909 thousand for the year ended December 31, 2002.

T N Soong & Co

An Associate Member Firm of Deloitte Touche Tohmatsu

Effective April 22, 2002

(Formerly a Member Firm of Andersen Worldwide, SC)

Taipei, Taiwan

The Republic of China

Notice to Readers

The accompanying consolidated financial statements are intended only to present the consolidated financial position, results of operations and cash flows in accordance with accounting principles and practices generally accepted in the Republic of China and not those of any other jurisdiction. The standards, procedures and practices to audit such consolidated financial statements are those generally accepted and applied in the Republic of China.

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## CONSOLIDATED BALANCE SHEETS

December 31, 2002 and 2001

(In Thousand New Taiwan Dollars, Except Par Value)

	2002		2001	
	Amount	%	Amount	%
<b>ASSETS</b>				
<b>CURRENT ASSETS</b>				
Cash and cash equivalents (Notes 2 and 5)	\$ 67,790,204	17	\$ 37,556,295	10
Short-term investments (Notes 2 and 6)	170,012		1,398,071	
Receivable from related parties (Note 20)	439,659		494,732	
Notes receivable	60,240		176,582	
Accounts receivable (Note 23)	19,530,702	5	19,957,636	5
Allowance for doubtful receivables (Note 2)	(932,993)		(1,100,492)	
Allowance for sales returns and others (Note 2)	(2,372,515)	(1)	(2,581,551)	(1)
Inventories net (Notes 2 and 7)	11,201,446	3	9,828,328	3
Deferred income tax assets (Notes 2 and 16)	3,401,729	1	2,350,147	1
Prepaid expenses and other current assets (Notes 2, 20 and 23)	3,248,674	1	2,721,421	1
<b>Total Current Assets</b>	<b>102,537,158</b>	<b>26</b>	<b>70,801,169</b>	<b>19</b>
<b>LONG-TERM INVESTMENTS (Notes 2, 3, 8, and 18)</b>	<b>10,635,496</b>	<b>3</b>	<b>11,599,150</b>	<b>3</b>
<b>PROPERTY, PLANT AND EQUIPMENT (Notes 2, 9, 12 and 20)</b>				
Cost				
Land and land improvements	874,907		877,371	
Buildings	76,428,851	20	60,523,505	17
Machinery and equipment	343,951,592	88	280,023,690	76
Office equipment	6,996,027	2	6,062,496	2
<b>Total cost</b>	<b>428,251,377</b>	<b>110</b>	<b>347,487,062</b>	<b>95</b>
Accumulated depreciation	(210,101,159)	(54)	(155,948,960)	(42)
Advance payments and construction in progress	28,348,093	7	59,749,530	16
<b>Net Property, Plant and Equipment</b>	<b>246,498,311</b>	<b>63</b>	<b>251,287,632</b>	<b>69</b>
<b>GOODWILL (Note 2)</b>	<b>10,158,845</b>	<b>3</b>	<b>11,437,572</b>	<b>3</b>



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<b>OTHER ASSETS</b>				
Deferred charges net (Notes 2 and 10)	9,873,825	3	3,769,750	1
Deferred income tax assets (Notes 2 and 16)	9,773,226	2	16,245,828	5
Refundable deposits (Note 20 and 22)	557,266		784,089	
Idle assets net (Note 2)	386,317			
Assets leased to others (Note 2)	87,246		555,053	
Miscellaneous	34,709		37,452	
<b>Total Other Assets</b>	<b>20,712,589</b>	<b>5</b>	<b>21,392,172</b>	<b>6</b>
<b>TOTAL ASSETS</b>	<b>\$ 390,542,399</b>	<b>100</b>	<b>\$ 366,517,695</b>	<b>100</b>

	<b>2002</b>		<b>2001</b>	
	<b>Amount</b>	<b>%</b>	<b>Amount</b>	<b>%</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>				
<b>CURRENT LIABILITIES</b>				
Short-term bank loans (Note 11)	\$ 729,813		\$ 6,269,181	2
Payable to related parties (Note 20)	1,776,149		1,048,273	
Accounts payable (Note 23)	5,138,592	1	1,397,879	
Payable to contractors and equipment suppliers	14,132,100	4	12,867,236	4
Accrued expenses and other current liabilities (Note 23)	6,477,212	2	6,746,483	2
Current portion of long-term liabilities (Notes 12, 13 and 14)	12,107,899	3	5,000,000	1
<b>Total Current Liabilities</b>	<b>40,361,765</b>	<b>10</b>	<b>33,329,052</b>	<b>9</b>
<b>LONG-TERM LIABILITIES</b>				
Long-term bank loans (Note 12)	11,051,454	3	22,399,360	6
Long-term bonds payables (Note 13)	35,000,000	9	24,000,000	7
Other long-term payables (Note 14)	4,281,665	1		
<b>Total Long-term Liabilities</b>	<b>50,333,119</b>	<b>13</b>	<b>46,399,360</b>	<b>13</b>
<b>OTHER LIABILITIES</b>				
Accrued pension cost (Notes 2 and 15)	2,211,560	1	1,856,617	
Guarantee deposits (Note 22)	1,395,066		7,212,688	2
Deferred gain on sales and leaseback (Note 2)	114,928		268,165	
Others	177,256		141,498	
<b>Total Other Liabilities</b>	<b>3,898,810</b>	<b>1</b>	<b>9,478,968</b>	<b>2</b>
<b>MINORITY INTEREST IN SUBSIDIARIES (Note 2)</b>				
	95,498		120,240	
<b>Total Liabilities</b>	<b>94,689,192</b>	<b>24</b>	<b>89,327,620</b>	<b>24</b>

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SHAREHOLDERS EQUITY (Notes 2 and 17)				
Capital stock \$10 par value				
Authorized: 24,600,000 thousand shares				
Issued: Preferred 1,300,000 thousand shares	13,000,000	3	13,000,000	3
Common 18,622,887 thousand shares in 2002 and 16,832,554 thousand shares in 2001	186,228,867	48	168,325,531	46
Capital surplus:				
Merger and others (Note 2)	56,961,753	15	57,128,433	16
Treasury stock (Notes 3 and 18)	43,036			
Retained earnings:				
Appropriated as legal reserve	18,641,108	5	17,180,067	5
Appropriated as special reserve			349,941	
Unappropriated earnings	22,151,089	5	19,977,402	6
Unrealized loss on long-term investments (Note 2)	(194,283)			
Cumulative translation adjustments (Note 2)	945,129		1,228,701	
Treasury stock (at cost) 42,001 thousand shares (Notes 2, 3 and 18)	(1,923,492)			
<b>Total Shareholders Equity</b>	<b>295,853,207</b>	<b>76</b>	<b>277,190,075</b>	<b>76</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS EQUITY</b>	<b>\$ 390,542,399</b>	<b>100</b>	<b>\$ 366,517,695</b>	<b>100</b>

The accompanying notes are an integral part of the consolidated financial statements.

(With T N Soong & Co report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF INCOME

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars, Except Consolidated Earnings Per Share)

	2002		2001	
	Amount	%	Amount	%
GROSS SALES (Notes 2, 20 and 24)	\$ 166,187,670		\$ 128,560,708	
SALES RETURNS AND ALLOWANCES (Note 2)	(3,886,462)		(2,675,816)	
NET SALES	162,301,208	100	125,884,892	100
COST OF SALES (Note 20)	109,988,058	68	92,228,098	73
GROSS PROFIT	52,313,150	32	33,656,794	27
OPERATING EXPENSES (Notes 20 and 24)				
Research and development	11,725,035	7	10,649,019	9
General and administrative	7,007,283	5	7,939,839	6
Marketing	1,991,793	1	2,290,139	2
Total Operating Expenses	20,724,111	13	20,878,997	17
INCOME FROM OPERATIONS	31,589,039	19	12,777,797	10
NON-OPERATING INCOME (Note 24)				
Interest	1,094,724	1	1,486,656	1
Royalty income (Note 22)	527,126		1,301,606	1
Gain on sales of property, plant and equipment (Note 2)	273,998		52,376	
Technical service income (Notes 20 and 22)	162,149		55,077	
Gain on sales of short-term investments net (Note 2)	69,610		1,619,062	1
Insurance compensation net			860,835	1
Premium income from option contracts net (Notes 2 and 23)			234,732	
Gain on sales of long-term investments net (Note 2)			105,439	
Other (Note 20)	291,860		759,793	1
Total Non-operating Income	2,419,467	1	6,475,576	5

(Forward)

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	2002		2001	
	Amount	%	Amount	%
<b>NON-OPERATING EXPENSES (Note 24)</b>				
Interest (Notes 2, 9 and 23)	\$ 2,616,740	2	\$ 3,144,042	3
Investment loss recognized by equity method net (Notes 2 and 8)	1,976,847	1	3,959,020	3
Permanent loss on long-term investments (Note 2)	795,674	1		
Loss on sales of and provision for loss on property, plant and equipment (Note 2)	466,385		235,629	
Premium expense from option contracts net (Notes 2 and 23)	419,513			
Loss on sales of long-term investments net (Note 2)	170,831			
Foreign exchange loss net (Notes 2 and 23)	120,568		695,620	
Casualty loss net (Note 2)	119,485			
Amortization of bond issuance costs (Note 2)	18,523		12,504	
Other	81,792		420,053	
<b>Total Non-operating Expenses</b>	<b>6,786,358</b>	<b>4</b>	<b>8,466,868</b>	<b>6</b>
<b>INCOME BEFORE INCOME TAX (Note 24)</b>	<b>27,222,148</b>	<b>16</b>	<b>10,786,505</b>	<b>9</b>
<b>INCOME TAX BENEFIT (EXPENSE) (Notes 2 and 16)</b>	<b>(5,636,648)</b>	<b>(3)</b>	<b>3,740,678</b>	<b>3</b>
<b>INCOME BEFORE MINORITY INTEREST</b>	<b>21,585,500</b>	<b>13</b>	<b>14,527,183</b>	<b>12</b>
<b>MINORITY INTEREST IN LOSS (INCOME) OF SUBSIDIARIES (Notes 2 and 24)</b>	<b>24,791</b>		<b>(44,009)</b>	
<b>CONSOLIDATED NET INCOME</b>	<b>\$ 21,610,291</b>	<b>13</b>	<b>\$ 14,483,174</b>	<b>12</b>

	Income Before	Consolidated	Income Before	Consolidated
	Income Tax	Net Income	Income Tax	Net Income
<b>CONSOLIDATED EARNINGS PER SHARE (Note 19)</b>				
Basic earnings per share	\$ 1.44	\$ 1.14	\$ 0.55	\$ 0.75
Diluted earnings per share	\$ 1.44	\$ 1.14	\$ 0.55	\$ 0.75

The accompanying notes are an integral part of the consolidated financial statements.

(With T N Soong & Co report dated January 16, 2003)



English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars)

	CAPITAL STOCK ISSUED				CAPITAL SURPLUS (Notes 2 and 17)							Total
	Preferred Stock		Common Stock		From Merger	Additional Paid-in Capital	From Long-term Investments	Excess on Foreign Bond Investment	Gain on Sales of Properties	Donation	Treasury Stock	
	Shares	Amount	Shares	Amount								
	(Thousand)		(Thousand)									
BALANCE, JANUARY 1, 2001	1,300,000	\$ 13,000,000	11,689,365	\$ 116,893,646	\$ 22,329,129	\$ 23,172,550	\$ 246,219	\$ 9,410,632	\$ 127,236	\$ 55	\$	\$ 55,285,821
Appropriations of prior year's earnings												
Legal reserve												
Special reserve												
Bonus to employees' stock			467,443	4,674,426								
Cash dividends paid for preferred stocks												
Stock dividends 40%			4,675,746	46,757,459								
Remuneration to directors and supervisors												
Net income in 2001												
Reclassification of the accumulated deficits from the merged company					1,803,168							1,803,168
Gain on sales of property, plant and equipment									39,282			39,282
Gain on sales of property, plant and equipment from investees							162					162

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Reversal of the unrealized loss on long-term investments											
Translation adjustments											
<b>BALANCE, DECEMBER 31, 2001</b>	1,300,000	13,000,000	16,832,554	168,325,531	24,132,297	23,172,550	246,381	9,410,632	166,518	55	57,128,433
Appropriations of prior year's earnings											
Legal reserve											
Special reserve											
Bonus to employees' stock			107,078	1,070,783							
Cash dividends paid for preferred stocks											
Stock dividends 10%			1,683,255	16,832,553							
Remuneration to directors and supervisors											
Net income in 2002											
Transfer of the capital surplus from gain on sales of property, plant and equipment to retained earnings								(166,518)			(166,518)
Transfer of the capital surplus from gain on sales of property, plant and equipment of investees to retained earnings							(162)				(162)
Unrealized loss on long-term investments											
Translation adjustments											
Reclassification of stocks of a parent company held by subsidiaries from long-term investments to treasury stock											
Capital surplus resulted from sales of treasury stock										43,036	43,036



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BALANCE, DECEMBER 31, 2002	1,300,000	\$ 13,000,000	18,622,887	\$ 186,228,867	\$ 24,132,297	\$ 23,172,550	\$ 246,219	\$ 9,410,632	\$	\$ 55	\$ 43,036	\$ 57,004,789
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	RETAINED EARNINGS (Note 17)				UNREALIZED		TREASURY STOCK (Notes 2, 3 and 18 )	TOTAL SHAREHOLDERS EQUITY
	Legal Reserve	Special Reserve	Unappropriated Earnings	Total	GAIN (LOSS) ON CUMULATIVE			
					LONG-TERM TRANSLATION			
					INVESTMENTS	ADJUSTMENTS		
				(Note 2)	(Note 2)			
BALANCE, JANUARY 1, 2001	\$ 10,689,323	\$ 1,091,003	\$ 65,143,847	\$ 76,924,173	\$ (71,564)	\$ (278,377)	\$	\$ 261,753,699
Appropriations of prior year s earnings								
Legal reserve	6,490,744		(6,490,744)					
Special reserve		(741,062)	741,062					
Bonus to employees stock			(4,674,426)	(4,674,426)				
Cash dividends paid for preferred stocks			(41,137)	(41,137)				(41,137)
Stock dividends 40%			(46,757,459)	(46,757,459)				
Remuneration to directors and supervisors			(584,303)	(584,303)				(584,303)
Net income in 2001			14,483,174	14,483,174				14,483,174
Reclassification of the accumulated deficits from the merged company			(1,803,168)	(1,803,168)				
Gain on sales of property, plant and equipment			(39,282)	(39,282)				
Gain on sales of property, plant and equipment from investees			(162)	(162)				
Reversal of the unrealized loss on long-term investments					71,564			71,564
Translation adjustments						1,507,078		1,507,078
BALANCE, DECEMBER 31, 2001	17,180,067	349,941	19,977,402	37,507,410		1,228,701		277,190,075
Appropriations of prior year s earnings								
Legal reserve	1,448,317		(1,448,317)					
Special reserve		(349,941)	349,941					
Bonus to employees stock			(1,070,783)	(1,070,783)				
Cash dividends paid for preferred stocks			(455,000)	(455,000)				(455,000)
Stock dividends 10%			(16,832,553)	(16,832,553)				
Remuneration to directors and supervisors			(133,848)	(133,848)				(133,848)
Net income in 2002			21,610,291	21,610,291				21,610,291
Transfer of the capital surplus from gain on sales of property, plant	12,724		153,794	166,518				

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and equipment to retained earnings								
Transfer of the capital surplus from gain on sales of property, plant and equipment of investees to retained earnings			162	162				
Unrealized loss on long-term investments					(194,283)			(194,283)
Translation adjustments						(283,572)		(283,572)
Reclassification of stocks of a parent company held by subsidiaries from long-term investments to treasury stock							(1,923,492)	(1,923,492)
Capital surplus resulted from sales of treasury stock								43,036
<b>BALANCE, DECEMBER 31, 2002</b>	<b>\$ 18,641,108</b>	<b>\$</b>	<b>\$ 22,151,089</b>	<b>\$ 40,792,197</b>	<b>\$ (194,283)</b>	<b>\$ 945,129</b>	<b>\$ (1,923,492)</b>	<b>\$ 295,853,207</b>

The accompanying notes are an integral part of the consolidated financial statements.

(With T N Soong & Co report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## CONSOLIDATED STATEMENTS OF CASH FLOWS

For the Years Ended December 31, 2002 and 2001

(In Thousand New Taiwan Dollars)

	<u>2002</u>	<u>2001</u>
<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>		
Net income	\$ 21,610,291	\$ 14,483,174
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	65,000,873	55,323,040
Deferred income taxes	5,421,020	(3,788,154)
Investment loss recognized by equity method net	1,976,847	3,959,020
Permanent loss on long-term investments	795,674	
Loss (gain) on sales of long-term investments net	170,831	(105,439)
Loss on sales of and provision for loss on property, plant and equipment net	192,387	183,253
Reversal of provision for losses on short-term investments net		(13,146)
Pension cost accrued	355,705	345,340
Allowance for doubtful receivables	(167,499)	153,758
Allowance for sales returns and others	(209,036)	123,228
Minority interest in income (loss) of subsidiaries	(24,791)	44,009
Changes in operating assets and liabilities:		
Decrease (increase) in:		
Receivable from related parties	55,073	453,994
Notes receivable	116,342	(51,407)
Accounts receivable	426,934	10,377,678
Inventories net	(1,373,118)	2,957,395
Forward exchange contract receivable	(199,609)	49,480
Prepaid expenses and other current assets	(330,819)	202,303
Increase (decrease) in:		
Payable to related parties	727,876	(1,558,066)
Accounts payables	3,740,713	(7,109,948)
Forward exchange contract payables	(379,579)	218,165
Accrued expenses and other current liabilities	601,110	(429,965)
<b>Net Cash Provided by Operating Activities</b>	<b>98,507,225</b>	<b>75,817,712</b>
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>		
Decrease in short-term investments	1,184,419	117,173
Acquisitions of:		
Long-term investments	(3,192,427)	(5,120,580)
Property, plant and equipment	(55,235,458)	(70,201,205)
Proceeds from sales of:		
Long-term investments	53,048	559,137
Property, plant, and equipment	495,878	301,416
Increase in deferred charges	(5,724,583)	(1,805,250)

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Decrease in refundable deposits	226,823	194,978
Decrease (increase) in other assets	2,711	(9,162)

(Forward)

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	2002	2001
Increase (decrease) in minority interest in subsidiaries	\$ 49	(\$ 249,166)
Increase in goodwill		(1,019,227)
<b>Net Cash Used in Investing Activities</b>	<b>(62,189,540)</b>	<b>(77,231,886)</b>
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>		
Proceeds from issuance of:		
Short-term bank loans		2,435,340
Long-term bonds	10,000,000	
Payments on:		
Short-term bank loans	(5,539,368)	
Long-term bank loans	(4,397,306)	(940,007)
Increase (decrease) in guarantee deposits	(5,817,622)	126,309
Decrease in lease obligation		(51,286)
Cash dividends paid for preferred stocks	(455,000)	(455,000)
Remuneration paid to directors and supervisors	(133,848)	(170,440)
Increase in issuance costs of financing	(3,002)	(47,689)
<b>Net Cash (Used in) Provided by Financing Activities</b>	<b>(6,346,146)</b>	<b>897,227</b>
<b>NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>29,971,539</b>	<b>(516,947)</b>
<b>EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS</b>	<b>262,370</b>	<b>(766,975)</b>
<b>CASH AND CASH EQUIVALENTS, BEGINNING OF THE YEAR</b>	<b>37,556,295</b>	<b>38,840,217</b>
<b>CASH AND CASH EQUIVALENTS, END OF THE YEAR</b>	<b>\$ 67,790,204</b>	<b>\$ 37,556,295</b>
<b>SUPPLEMENTAL INFORMATION</b>		
Interest paid (excluding the amounts capitalized of NT\$213,686 thousand and NT\$507,094 thousand in 2002 and 2001, respectively)	\$ 2,301,765	\$ 3,468,112
Income tax paid	\$ 165,121	\$ 20,767
Noncash investing and financing activities:		
Reclassification of a parent company stock held by subsidiaries from long-term investments to treasury stock	\$ 1,923,492	\$
Effect of exchange rate changes on cash and cash equivalents	(\$ 142,438)	\$ 1,258,395
Current portion of long-term liabilities	\$ 12,107,899	\$ 5,001,116
Cash paid for acquisition of property, plant and equipment:		
Total acquisition	\$ 56,500,322	\$ 57,518,168
Decrease (increase) in payables to contractors and equipment suppliers	(1,264,864)	12,683,037

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	\$ 55,235,458	\$ 70,201,205
	<u>                    </u>	<u>                    </u>
Cash paid for acquisition of deferred charges:		
Total acquisition	\$ 10,401,176	\$ 1,805,250
Increase in other long-term payable (including current portion)	(4,676,593)	
	<u>                    </u>	<u>                    </u>
	\$ 5,724,583	\$ 1,805,250
	<u>                    </u>	<u>                    </u>

The accompanying notes are an integral part of the consolidated financial statements.

(With T N Soong & Co report dated January 16, 2003)

English Translation of Financial Statements Originally Issued in Chinese

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(Amounts in Thousand New Taiwan Dollars, Unless Specified Otherwise)

1. GENERAL

Taiwan Semiconductor Manufacturing Company Ltd. (TSMC), a Republic of China corporation, was incorporated as a venture among the government of the ROC, acting through the Development Fund of the Executive Yuan; Philips Electronics N.V. and certain of its affiliates (Philips); and certain other private investors. In September 1994, its shares were listed on the Taiwan Stock Exchange. On October 8, 1997, TSMC listed its shares of stock on the New York Stock Exchange in the form of American Depositary Shares.

TSMC is engaged mainly in the manufacturing, selling, packaging, testing and designing of integrated circuits and other semiconductor devices, and the manufacturing of masks.

TSMC has six direct wholly-owned subsidiaries, namely, TSMC North America (TSMC-North America), Taiwan Semiconductor Manufacturing Company Europe B.V (TSMC-Europe), TSMC Japan K. K. (TSMC-Japan), TSMC International Investment Ltd. (TSMC International), TSMC Partners Ltd. (TSMC Partners), Ya Xin Technology, Inc. (Ya Xin), a 99.5% owned subsidiary, Emerging Alliance Fund, LP (Emerging Alliance) and two 36% owned affiliates Chi Cherng Investment Co., Ltd. (Chi Cherng, which is 36% owned by TSMC and 64% owned by Hsin Ruey Investment Co., Ltd.) and Hsin Ruey Investment Co., Ltd. (Hsin Ruey, which is 36% owned by TSMC and 64% owned by Chi Cherng). TSMC International has two wholly-owned subsidiaries TSMC Development, Inc. (TSMC Development), TSMC Technology, Inc. (TSMC Technology), and two 97%-owned subsidiaries InveStar Semiconductor Development Fund, Inc. (InveStar) and InveStar Semiconductor Development Fund, Inc. (II) LDC (InveStar II). TSMC Development has a 99.7% owned subsidiary, WaferTech, LLC (WaferTech).

TSMC established Ya Xin in November 2002 and subsequently signed a merger agreement with Global UniChip Corp. (Global UniChip) in December 2002. The merger was effective on January 4, 2003 and Global UniChip is the surviving company. TSMC holds 52% of Global UniChips shares after the completion of the merger.

The following diagram presents information regarding the relationship and ownership percentages among TSMC and its subsidiaries as of December 31, 2002:

TSMC-North America is engaged in the sales and marketing of integrated circuits and semiconductor devices. TSMC-Europe, TSMC-Japan, TSMC Development and TSMC Technology are engaged mainly in marketing and engineering support activities. TSMC Partners, Chi Cherng and Hsin Ruey are engaged in investments. Ya Xin is engaged in the design of integrated circuits. TSMC International is engaged in providing investment in companies involved in design, manufacture, and other related business in semiconductor industries. Emerging Alliance, InveStar and InveStar II are engaged in investing in new start-up companies in the fields of high-technology. WaferTech is engaged in the manufacturing, selling, testing and designing of integrated circuits and other semiconductor devices.

## 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

### Consolidation

TSMC consolidates the accounts of all majority (directly and indirectly) owned subsidiaries. The consolidated financial statements include, as of and for the years ended December 31, 2002 and 2001, the accounts of TSMC, TSMC-North America, TSMC-Europe, TSMC-Japan, TSMC Partners, Emerging Alliance, Chi Cherng, Hsin Ruey, Ya Xin (a newly established entity in 2002) and TSMC International and its subsidiaries, InveStar, InveStar II, TSMC Development (including WaferTech) and TSMC Technology. TSMC and the foregoing subsidiaries are hereinafter referred to collectively as the Company. All significant intercompany balances and transactions have been eliminated in these consolidated financial statements.

TSMC's investees, Hsin Ruey, Chi Hsin Investment Co., Ltd. (Chi Hsin) and Kung Cherng Investment Co., Ltd. (Kung Cherng) were merged on October 30, 2002, with Hsin Ruey as the surviving company. In addition, TSMC's investees, Chi Cherng, Cherng Huei Investment Co., Ltd. (Cherng Huei) and Po Cherng Investment Co., Ltd. (Po Cherng) were merged on October 30, 2002 with Chi Cherng as the surviving company. Chi Hsin, Kung Cherng, Cherng Huei and Po Cherng were consolidated entities as of and for the year ended December 31, 2001.

Minority interests in Emerging Alliance (0.5%), InveStar (3%), InveStar II (3%) and WaferTech (0.3% in 2002 and 1% in 2001) are presented separately in the consolidated financial statements.

### Cash and cash equivalents

Government bonds acquired under agreements that provide for their repurchase within less than three months from date of purchase are classified as cash equivalents.

### Short-term investments

Short-term investments are carried at the lower of cost or market value. The costs of investments sold are determined by the specific identification method.

### Allowance for doubtful receivables



Allowances for doubtful receivables are provided based on a review of the collectibility of accounts receivables.

Sales and sales returns and allowances

Sales are recognized when titles of products and risks of ownerships are transferred to customers, primarily upon shipment. Allowance and related provisions for sales returns and others are estimated based on historical experience. Such provisions are deducted from sales in the year the products are sold and the estimated related costs are deducted from cost of sales.

Inventories

Inventories are stated at the lower of cost or market value. Inventories are recorded at standard cost and adjusted to approximate weighted-average cost at the end of each period. Market value represents net realizable value for finished goods and work in process, and replacement value for raw materials, supplies and spare parts.

Long-term investments

Investments in shares of stock of companies wherein the Company exercises significant influence on the operating and financial policy decisions are accounted for using the equity method. The Company's proportionate share in the net income or net loss of investee companies are recognized as components of the Investment income/loss recognized by equity method net account. The Company adopted Statements of Financial Accounting Standards ( SFAS ) No. 30, Accounting for Treasury Stock on January 1, 2002. SFAS No. 30 requires a parent company to record stock held by its subsidiary as treasury stock. The recorded value of treasury stock is based on the carrying values of the short/long-term investments on the subsidiaries' books as of January 1, 2002.

When the Company subscribes to additional investee shares at a percentage different from its existing equity interest, the resulting carrying amount of the investment in equity investee differs from the amount of Company's proportionate share in the investee's net equity. The Company records such difference as an adjustment to capital surplus as well as the long-term investments' accounts. In the event an investee has an accumulated deficit, it will record an offset to its capital surplus, excluding the reserve for asset revaluation, through retained earnings. The Company will also record a corresponding entry equivalent to its proportionate share of the investee capital surplus, excluding the reserve for asset revaluation, that was generated subsequent to any acquisition of equity interest in the investee.

Other stock investments are accounted for using the cost method. Cash dividends are recognized as income in the year received but are accounted for as reduction in the carrying values of the long-term investments if the dividends are received in the same year that the related investments are acquired. Stock dividends are recognized neither as investment income nor increase of long-term investment but recorded only as an increase in the number of shares held. An allowance is recognized for any decline in the market value of investments using quoted market prices with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the market value. The carrying values of investments with no quoted market price are reduced to reflect an other than temporary decline in their values with the related impairment loss charged to income.

Investments in foreign mutual funds are stated at the lower of cost or net asset value (NAV). An allowance is recognized when the cost of the funds are lower than their net asset values, with the corresponding amount debited to shareholders' equity. A reversal of the allowance will result from a subsequent recovery of the net asset value.

Investment in convertible notes and stock purchase warrants are carried at cost.

The costs of investments sold are determined using the weighted-average method.

If an investee company has an unrealized loss on a long-term investment evaluated using the lower-of-cost-or-market method, the Company recognizes a corresponding unrealized loss in proportion to its equity interest and records the amount as a component of its own shareholders' equity.

Gain or loss on transactions with investee companies wherein the Company owned at least 20% of the outstanding common stock but less than a controlling interest are deferred in proportion to the ownership percentage until realized through a transaction with a third party. The entire amount of the gains or losses on sales to majority-owned subsidiaries are deferred until such gains or losses are realized through the subsequent sale of the related products to third parties. Gains or losses from sales by investee companies to the Company are deferred in proportion to the ownership percentage until realized through transactions with third parties.

#### Property, plant and equipment, assets leased to others and idle assets

Property, plant and equipment and assets leased to others are stated at cost less accumulated depreciation. Idle assets are stated at the lower of book value or net realized value. Significant additions, renewals, betterments and interest expense incurred during the construction period are capitalized. Maintenance and repairs are expensed in the period incurred. Property, plant and equipment covered by agreements qualifying as capital leases are carried at the lower of the present value of future minimum rent payments, or the market value of the property at the inception date of the lease. The lessee's periodic rental payment includes the purchase price of the leased property and the interest expense.

Depreciation is computed using the straight-line method over these estimated service lives, which range as follows: Land improvements - 20 years; buildings - 10 to 20 years; machinery and equipment - 5 years; and office equipment - 3 to 7 years.

Upon sale or disposal of property, plant and equipment, the related cost and accumulated depreciation are removed from the accounts, and any gain or loss is credited or charged to income in the period of disposal.

#### Goodwill

Goodwill represents the excess of the consideration paid for acquisitions over the fair market value of identifiable net assets acquired and the difference between the investment cost and the Company's proportionate share in the net assets of acquired investee companies. Goodwill is amortized using the straight-line method over the estimated life of 10 years.



Deferred charges

Deferred charges consist of software and system design costs, technology know-how, bond issuance and financing costs, and technology license fees. The amounts are amortized as follows: Software and system design costs 3 years, technology know-how 5 years; bond issuance and financing costs the term of the bonds or the related line of credit; technology license fee the shorter of the estimated life of the technology or the term of the technology transfer contract.

Pension costs

Net periodic pension costs are recorded on the basis of actuarial calculations. Unrecognized net transition obligation and unrecognized net gain/loss are amortized over 25 years.

Deferred gain on sales and leaseback

The gain on the sale of property that is simultaneously leased back is deferred by the Company. This deferred gain on sales and leaseback transactions is amortized as follows: (a) operating leases adjustment of rental expenses over the term of the leases and (b) capital leases adjustment of depreciation expenses over the estimated useful life of the property or the term of the lease; whichever is shorter.

Casualty loss

Casualty loss consists of the accrued loss caused by the earthquake on March 31, 2002 less the estimated insurance compensation.

Income tax

The Company uses an inter-period tax allocation method for income tax. Deferred income tax assets and liabilities are recognized for the tax effects of temporary differences, unused tax credits, and operating loss carry forwards. Valuation allowances are provided to the extent, if any, that it is more likely than not that deferred income tax assets will not be realized. A deferred tax asset or liability is, according to the classification of its related asset or liability, classified as current or non-current. However, if a deferred tax asset or liability does not relate to an asset or liability in the financial statements, then it is classified as current or non-current based on the expected length of time before it is realized.

Any tax credit arising from the purchase of machinery, equipment and technology, research and development expenditures, personnel training, investments in important technology-based enterprise are recognized using the current method.

Adjustments of prior years tax liabilities are added to or deducted from the current year's tax provision.

As of January 1, 1998, income taxes on unappropriated earnings (excluding the foreign consolidated entities) of 10% are expensed in the year of shareholder approval which is usually the year subsequent to the year incurred.

Derivative financial instruments

The Company enters into foreign currency forward contracts to manage currency exposures in cash flow and in foreign currency-denominated assets and liabilities. The differences in the New Taiwan dollar amounts translated using the spot rate and the amounts translated using the contracted forward rates are amortized over the terms of the forward contracts using the straight-line method. At the balance sheet dates, the receivables or payables arising from forward contracts are restated using the prevailing spot rate at the balance sheet date and the resulting differences are recognized in charged to income. Also, the receivables and payables related to the forward contract are netted with the resulting amount presented as either an asset or a liability.

The Company enters into interest rate swap transactions to manage exposures from changes in interest rates on existing liabilities. These transactions are accounted for on an accrual basis, in which the cash settlement receivable or payable is recorded as an adjustment to interest income or expense.

The notional amount of foreign currency option contracts entered into for hedging purposes are not recognized as an asset or liability on the contract dates. The premiums paid or received for the call or put options are amortized to income on a straight-line basis over the term of the related contract.

Foreign-currency transactions

Foreign-currency transactions are recorded in New Taiwan dollars at the current rate of exchange in effect when the transaction occurs. Gains or losses derived from foreign currency transactions or monetary assets and liabilities denominated in a foreign currency are recognized in current operations. At year-end, foreign-currency assets and liabilities are revalued at the prevailing exchange rate with the resulting gain or loss recognized in current operations.

Translation of foreign-currency financial statements

ROC Financial Accounting Standards (FAS) No. 14, Accounting for Foreign-Currency Transactions, applies to foreign subsidiaries that use the local foreign currency as its functional currency. The financial statements of foreign subsidiaries are translated into New Taiwan dollars at the following exchange rates: assets and liabilities current rate on balance sheet date; shareholders equity historical rate; income and expenses weighted average rate during the year. The resulting translation adjustment is recorded as a separate component of shareholders equity.

## 3. NEW ACCOUNTING PRONOUNCEMENTS

In accordance with the Statement of Financial Accounting Standards No. 30, Accounting for Treasury Stock and other relevant regulations from Securities and Futures Commission (SFC), the Company is required to reclassify its common stock held by subsidiaries from short/long-term investments to treasury stock. The reclassification is based on the carrying value of NT\$2,115,695 thousand as recorded by the subsidiaries as of January 1, 2002. The adoption of SFAS No. 30 resulted in the decrease of long-term investments and the increase of treasury stock by NT\$1,923,492 thousand as of December 31, 2002, and an increase in net income for the year ended December 31, 2002 by NT\$25,909 thousand.

## 4. SIGNIFICANT ELIMINATION ENTRIES

Significant transactions and balances with subsidiaries that have been eliminated upon consolidation are as follows:

Company	Account	Amount	Transaction Entity
TSMC	Payable to related parties	\$ 617,751	WaferTech
		29,520	TSMC-Europe
		19,643	TSMC-Japan
		14,511	TSMC-North America
		9,424	TSMC Technology
	Receivable from related parties	9,739,236	TSMC-North America
		4,545	TSMC Technology
	Sales	94,433,401	TSMC-North America
		1,152	WaferTech
		9,955,154	WaferTech
	208,226	TSMC-Japan	
	132,086	TSMC-Europe	
	1,635	WaferTech	
TSMC	Notes receivable	347,530	TSMC Technology
International	Interest receivable	188,842	TSMC Technology
	Royalty income	455,778	TSMC Technology
	Interest revenue	26,660	TSMC Technology
TSMC Partners	Notes receivable	10,666,619	TSMC International
	Deferred revenue	9,398,140	TSMC International
	Royalty income	607,669	TSMC International
	Interest income	345,620	TSMC International
TSMC Technology	Accounts receivable	4,986	WaferTech
	Deferred revenue	13,356	TSMC Development
	Management service income	27,331	WaferTech
	Technical service income	14,758	TSMC Development
WaferTech	Deferred charges	31,278	TSMC Technology
	Administrative expense	34,563	TSMC Technology



5. CASH AND CASH EQUIVALENTS

	<u>2002</u>	<u>2001</u>
Cash and bank deposits	\$ 65,051,337	\$ 35,830,636
Government bonds acquired under repurchase agreement	2,738,867	1,725,659
	<u>\$ 67,790,204</u>	<u>\$ 37,556,295</u>

6. SHORT-TERM INVESTMENTS

	<u>2002</u>	<u>2001</u>
Listed stocks	\$ 170,012	\$ 1,398,071
Market value	<u>\$ 2,455,582</u>	<u>\$ 6,917,133</u>

The market values of listed stocks as of December 31, 2002 and 2001 were based on the average closing price for the month of December 2002 and 2001, respectively.

7. INVENTORIES NET

	<u>2002</u>	<u>2001</u>
Finished goods	\$ 3,837,245	\$ 1,790,305
Work in process	7,611,344	7,374,752
Raw materials	518,196	744,719
Supplies and spare parts	970,960	1,110,323
	<u>12,937,745</u>	<u>11,020,099</u>
Less allowance for losses	(1,736,299)	(1,191,771)
	<u>\$ 11,201,446</u>	<u>\$ 9,828,328</u>

8. LONG-TERM INVESTMENTS

<u>2002</u>		<u>2001</u>	
Carrying	% of	Carrying	% of

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	<u>Value</u>	<u>Owner- Ship</u>	<u>Value</u>	<u>Owner- Ship</u>
<u>Shares of stock</u>				
Equity method:				
Publicly traded				
Vanguard International Semiconductor (VIS)	\$ 2,415,297	25	\$ 3,377,526	25
Non-publicly traded				
Systems on Silicon Manufacturing Company Pte Ltd. (SSMC)	3,136,115	32	2,907,967	32
	<u>5,551,412</u>		<u>6,285,493</u>	
Prepayment for subscribed stocks VIS	<u>849,360</u>			
	<u>849,360</u>			

(Forward)

	2002		2001	
	Carrying Value	% of Owner-Ship	Carrying Value	% of Owner-Ship
<u>Cost method</u>				
Common stock				
Publicly traded stock				
Amkor Technology	\$ 280,748		\$ 280,748	
Monolithic System Tech.	104,289	2		
Taiwan Mask	32,129	2	32,129	2
Non-publicly traded stock				
United Technology	193,584	11	193,584	11
Global Testing Corp. (GTC)	179,882	10	179,951	10
Shin-Etsu Handotai Taiwan Co., Ltd.	105,000	7	105,000	7
Global Investment Holding	100,000	6	107,270	6
Hong Tung Venture Capital	83,916	10	150,000	10
EoNEX Technologies, Inc.	70,305	6		
Procoat Technology, Inc.	67,490	12		
Conwise Technology Corp. Ltd.	67,039	14		
Goyatek Technology, Inc.	62,104	8		
Programmable Microelectronics (Taiwan) Corp.	59,358	4	59,296	4
W.K. Technology, Fund IV	50,000	2	50,000	2
RichTek Technology Corp.	46,986	9	45,015	10
APE	46,743	6	46,748	6
Auden Technology MFG. Co., Ltd.	38,819	4		
Yi Yang Technology	33,606	9		
TrendChip Technologies Corp.	29,992	5		
ChipStrate Technology, Inc.	10,426	9	69,658	9
GeoVision, Inc.	4,518	2		
Divio, Inc.	104		105	
EmpowerTel Networks, Inc.			12,031	1
3DFX Interactive			10,396	
Ubicom, Inc.			6,028	2
Capella Microsystems			4,740	2
Equator Technologies, Inc.			3,151	
	<u>1,667,038</u>		<u>1,355,850</u>	
Preferred stock				
Non-publicly traded stock				
Sonics, Inc.	229,787	10	231,397	7
Tropian, Inc.	150,620	5	151,688	5
Reflectivity, Inc.	146,262	15	69,998	6
Monolithic Power Systems, Inc.	137,135	16	123,037	18
Atheros Communications, Inc.	124,868	3	125,754	2
Memsic, Inc.	106,344	23	107,088	20
Pixim, Inc.	87,845	3	87,498	3

(Forward)

	2002		2001	
	Carrying Value	% of Owner-Ship	Carrying Value	% of Owner-Ship
Quicksilver Technology	\$ 82,153	4	\$ 122,497	29
FormFactor, Inc.	69,506	1	69,998	1
Kilopass Technologies, Inc.	69,506	18		
NetLogic Microsystems	65,005	1	64,748	1
NanoAmp Solutions, Inc.	64,397	4	64,838	3
Newport Opticom, Inc.	63,288	15	77,124	15
Integrated Memory Logic, Inc.	62,868	12	63,318	10
Match Lab, Inc.	60,818	11	61,249	10
IP Unity	56,856	2		
Ikanos Communication	52,707	2	52,498	3
Ralink Technologies, Inc.	52,130	6	52,498	7
SiRF Technology Holdings, Inc.	50,878	1	51,248	1
LightSpeed Semiconductor Corp.	46,534	3	107,251	1
Advanced Analogic Technology, Inc.	43,824	2	44,131	2
OEpic, Inc.	43,094	7	87,497	6
Accelerant Networks	35,138	1		
Litchfield Communications	35,138	6	34,999	6
Quake Technologies, Inc.	35,138	1	34,999	1
Spreadtrum	35,138			
HiNT Corp.	34,753	5	34,999	5
Silicon Data, Inc.	34,753	7	8,750	2
XHP Microsystem	26,353	6		
Angstrom Systems, Inc.	26,065	7	26,249	7
Equator Technologies, Inc.	24,675	2	99,358	2
Capella Microsystems, Inc.	23,667	12	80,441	8
Sensory, Inc.	21,720	5	43,749	4
Iridigm Display	17,639	2		
Mosaic Systems	17,569	6		
Zenesis Technologies	17,569	4		
Divio, Inc.	17,377	4	17,500	4
Incentia Design Systems, Inc.	17,377	2	17,499	2
Oridus, Inc. (CreOsys, Inc.)	15,639	8	52,498	8
Signia Technologies, Inc.	15,639	12	78,748	20
LeadTONE Wireless, Inc.	8,270	6		
eBest!, Inc.	3,370	1		
EmpowerTel Networks, Inc.			179,480	7
RapidStream, Inc.			73,754	6
Y-Media Corp.			52,499	2
Rise Technology Company			52,498	2
Ubicom, Inc.			47,636	2
OmegaBand, Inc. (Seagull Semiconductor, Inc.)			43,749	6

(Forward)

	2002		2001	
	Carrying Value	% of Owner-Ship	Carrying Value	% of Owner-Ship
PicoTurbo, Inc.	\$		\$ 43,749	7
Procoat Technology, Inc.			30,000	10
	<u>2,329,412</u>		<u>2,868,509</u>	
<b>Convertible notes</b>				
eBest!, Inc.	834			
PicoTurbo, Inc.			10,323	
Rise Technology Company			10,500	
OmegaBand, Inc. (Seagull Semiconductor, Inc.)			6,730	
	<u>834</u>		<u>27,553</u>	
<b>Funds</b>				
Horizon Ventures	195,452		125,701	
Crimson Asia Capital	41,988		27,091	
BIAM Global Opportunity Fund			908,944	
	<u>237,440</u>		<u>1,061,736</u>	
<b>Warrant</b>				
OEpic, Inc.			9	
	<u>\$ 10,635,496</u>		<u>\$ 11,599,150</u>	

The carrying value of the investments accounted for using the equity method and the related investment losses were determined based on the audited financial statements of the investees in the same year. The investment losses of investee companies consist of the following:

	2002	2001
SSMC	\$ 1,155,076	\$ 1,722,080
VIS	821,771	2,236,940
	<u>\$ 1,976,847</u>	<u>\$ 3,959,020</u>

The market values and net asset values of the Company's long-term investments are as follows:

	2002	2001
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Market value of publicly traded stocks	\$ 4,792,108	\$ 7,056,942
Equity in the net assets of non-publicly traded stocks	7,720,481	8,286,549
Net asset value of funds	237,440	1,202,453

On January 8, 2003, the Company's investee company, VIS, issued 600,000 thousand shares of common stock at a discounted price of NT\$7 per share. The Company prepaid NT\$849,360 thousand at the end of 2002 for the share subscription and paid an additional NT\$766,815 thousand in January 2003. In this round of equity offering, the Company purchased a total of 230,882 thousand shares of VIS stocks. As a result, its ownership in VIS increased from 25% to 28%.

## 9. PROPERTY, PLANT AND EQUIPMENT

Accumulated depreciation consisted of the following:

	2002	2001
Land improvements	\$ 127,341	\$ 108,770
Buildings	24,140,506	16,604,096
Machinery and equipment	181,998,606	136,033,250
Office equipment	3,834,706	3,202,844
	<u>\$ 210,101,159</u>	<u>\$ 155,948,960</u>

Information on the status of expansion or construction plans of TSMC's manufacturing facilities at December 31, 2002 is as follows:

Manufacturing Plant	Estimated	Accumulated	Expected or Actual
	Cost	Expenditures	Date of Starting Operations
Fab 6	\$ 93,932,000	\$ 87,054,700	March 2000
Fab 12 phase 1	80,318,400	47,095,400	March 2002
Fab 14 phase 1	30,411,000	22,169,900	June 2003

Interest expense (before deducting capitalized amounts of NT\$213,686 thousand and NT\$507,094 thousand in 2002 and 2001, respectively) for the years ended December 31, 2002 and 2001 were NT\$2,830,426 thousand and NT\$3,651,136 thousand, respectively. The interest rates used for purpose of calculating the capitalized amount were 2.07% to 5.283% in 2002 and 2.54% to 5.283% in 2001.

## 10. DEFERRED CHARGES NET

	2002	2001
Technology license fee	\$ 6,519,334	\$ 996,578
Software and system design costs	3,167,366	2,073,802
Bond issuance costs and financing costs	127,195	150,142
Technology know-how	49,500	103,500
Others	10,430	445,728
	<u>\$ 9,873,825</u>	<u>\$ 3,769,750</u>

11. SHORT-TERM BANK LOANS

	<u>2002</u>	<u>2001</u>
Unsecured loan in US dollars:		
US\$21,000 thousand, refinanced in May 2002, repayable by May 2003, annual interest at 1.82% and 2.33% in 2002 and 2001, respectively	\$ 729,813	\$ 734,979
US\$82,000 thousand, repayable by March 2002, annual interest at 2.679%		2,869,918

(Forward)



	<u>2002</u>	<u>2001</u>
US\$5,500 thousand, repayable by June 2002, annual interest at 3.188%	\$	\$ 192,495
US\$21,565 thousand, repayable by October 2002, annual interest at 2.590%		754,735
US\$46,000 thousand, repayable by October 2002, annual interest at 2.548%		1,609,954
Secured loan in NT dollars:		
NT\$107,100 thousand, repayable by October 2002, annual interest at 3.2% to 3.8%		107,100
	<u>\$ 729,813</u>	<u>\$ 6,269,181</u>

As of December 31, 2002, TSMC provided NT\$1,390,120 thousand (US\$40,000 thousand) guarantee for the above US\$21,000 thousand loan.

Unused credit lines as of December 31, 2002 aggregated approximately NT\$7,930,000 thousand and US\$366,500 thousand.

## 12. LONG-TERM BANK LOANS

	<u>2002</u>	<u>2001</u>
Secured loan:		
US\$440,000 thousand, repayable by February 2005, US\$122,000 thousand repaid in 2002, annual floating interest at 2.078% and 2.578% in 2002 and 2001, respectively	\$ 11,051,454	\$ 15,399,560
Unsecured loan:		
US\$200,000 thousand, repayable by December 2003, annual interest at 2.0375% and 2.54% in 2002 and 2001, respectively	6,950,600	6,999,800
	<u>\$ 18,002,054</u>	<u>\$ 22,399,360</u>

As of December 31, 2002, all of the loans above were guaranteed by TSMC. In addition, the property and equipment of WaferTech with carrying amount of approximately NT\$29,053,508 thousand (US\$836,000 thousand) is pledged for the secured loan. Under the unsecured loan, TSMC is required to maintain certain financial covenants which, if violated, could result in the payment of this obligation becoming due prior to the originally scheduled maturity date. These financial covenants require TSMC to, among other things; maintain minimum levels of working capital, earnings before interest, taxes, depreciation and amortization, and net worth. TSMC was in compliance with these financial covenants as of December 31, 2002.

Unused credit lines for long-term bank loans as of December 31, 2002 aggregated approximately US\$122,000 thousand.

As of December 31, 2002, future minimum principal payments under the Company's long-term bank loan arrangements are as follows:

<u>Year</u>	<u>Amount</u>
2003	\$ 6,950,600
2004	
2005	11,051,454
	<u>18,002,054</u>

13. BONDS

	<u>2002</u>	<u>2001</u>
Domestic unsecured bonds:		
Issued on March 4, 1998 and payable on March 4, 2003 in one lump sum payment, 7.71% annual interest payable semi-annually	\$ 4,000,000	\$ 4,000,000
Issued on October 21, 1999 and payable on October 21, 2002 and 2004 in two equal payments, 5.67% and 5.95% annual interest payable annually, respectively	5,000,000	10,000,000
Issued from December 4 to 15, 2000 and payable in December 2005 and 2007 in two equal payments, 5.25% and 5.36% annual interest payable annually, respectively	15,000,000	15,000,000
Issued from January 10 to 24, 2002 and payable in January 2007, 2009 and 2012 in three equal payments, 2.6%, 2.75% and 3% annual interest payable annually, respectively	15,000,000	
	<u>\$ 39,000,000</u>	<u>\$ 29,000,000</u>

As of December 31, 2002, future principal payments for the Company's bond arrangements are as follows:

<u>Year of Repayment</u>	<u>Amount</u>
2003	\$ 4,000,000
2004	5,000,000
2005	10,500,000
2006	
2007	7,000,000
2008 and thereafter	12,500,000
	<u>\$ 39,000,000</u>

14. OTHER LONG-TERM PAYABLES

TSMC entered into several license arrangements for certain semiconductor patents. Future payments under the agreements as of December 31, 2002 are as follows:

Year	Amount
2003	\$ 1,157,299
2004	1,226,805
2005	987,009
2006	469,189
2007	486,566
2008 and thereafter	1,112,096
	<u>\$ 5,438,964</u>

15. PENSION PLAN

TSMC has pension plans for all regular employees that provide benefits based on length of service and average monthly salary for the six month period prior to retirement.

TSMC contributes an amount equal to 2% of salaries paid every month to a Pension Fund (the Fund). The Fund is administered by a pension fund monitoring committee (the Committee) and is deposited in the Committee's name in the Central Trust of China.

The changes in the Fund and accrued pension costs are summarized as follows:

a. Components of pension cost

	2002	2001
Service cost	\$ 442,294	\$ 417,967
Interest cost	121,552	95,920
Projected return on plan assets	(45,102)	(43,968)
Amortization	1,681	8,300
Net pension cost	<u>\$ 520,425</u>	<u>\$ 478,219</u>

b. Reconciliation of the fund status of the plan and accrued pension cost

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	<u>2002</u>	<u>2001</u>
Benefit obligation		
Vested benefit obligation	\$ 21,294	\$ 739
Nonvested benefit obligation	1,607,272	1,026,289
	<u>1,628,566</u>	<u>1,027,028</u>
Accumulated benefit obligation		
Additional benefits based on future salaries	1,300,712	1,407,014
	<u>2,929,278</u>	<u>2,434,042</u>
Projected benefit obligation		
Fair value of plan assets	(1,014,086)	(835,583)
	<u>1,915,192</u>	<u>1,598,459</u>
Funded status		

(Forward)

	<u>2002</u>	<u>2001</u>
Unrecognized net transitional obligation	(\$ 149,391)	(\$ 157,691)
Unrecognized net gain	445,759	415,849
Accrued pension cost	<u>\$ 2,211,560</u>	<u>\$ 1,856,617</u>

c. Actuarial assumptions

Discount rate used in determining present values	3.75%	5.0%
Future salary increase rate	3.00%	5.0%
Expected rate of return on plan assets	3.75%	5.0%

d. Contributions to pension fund

	<u>\$ 164,720</u>	<u>\$ 131,894</u>
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e. Payments from pension fund

	<u>\$ 5,360</u>	<u>\$</u>
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16. INCOME TAX BENEFIT (EXPENSE)

a. A reconciliation of income tax expense on income before income tax at the statutory rate and current income tax expense on income before tax credits is shown below:

	<u>2002</u>	<u>2001</u>
Income tax expense based on income before income tax at statutory rate	(\$ 6,881,352)	(\$ 2,699,626)
Tax effect of:		
Tax-exempt income	2,526,500	1,089,000
Temporary and permanent differences	(519,490)	(986,598)
Current income tax expense before income tax credits	<u>(\$ 4,874,342)</u>	<u>(\$ 2,597,224)</u>

b. Income tax benefit (expense) consists of:

	<u>2002</u>	<u>2001</u>
Current income tax expense before income tax credits	(\$ 4,874,342)	(\$ 2,597,224)
Additional 10% tax on the unappropriated earnings	(179,362)	(322,292)
Income tax credits	4,867,236	2,888,358
Other income tax	(29,160)	(16,318)
Income tax expense	<u>(215,628)</u>	<u>(47,476)</u>
Net change in deferred income tax assets (liabilities)		

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Net operating loss	4,074,264	4,304,821
Investment tax credits	2,510,192	3,044,170
Temporary differences	(2,868,207)	(1,918,009)
Valuation allowance	(9,137,269)	(1,642,828)
	<u>                    </u>	<u>                    </u>
Income tax benefit (expense)	<u>(\$ 5,636,648)</u>	<u>\$ 3,740,678</u>

c. Deferred income tax assets (liabilities) consist of the following:

	<u>2002</u>	<u>2001</u>
<b>Current</b>		
Investment tax credits	\$ 3,320,000	\$ 2,347,000
Temporary differences	81,729	3,147
	<u>\$ 3,401,729</u>	<u>\$ 2,350,147</u>
<b>Noncurrent</b>		
Net operating loss	\$ 9,646,552	\$ 6,125,369
Investment tax credits	23,247,653	21,710,461
Temporary differences	(8,352,647)	(2,363,913)
Valuation allowance	(14,768,332)	(9,226,089)
	<u>\$ 9,773,226</u>	<u>\$ 16,245,828</u>

The effective tax rate used in determining TSMC's deferred tax asset as of December 31, 2002 and 2001 was 25%; the effective tax rates for the subsidiaries are 34% to 41% as of December 31, 2002 and 2001.

d. Integrated income tax information:

The balances of the imputation credit account (ICA) as of December 31, 2002 and 2001 were NT\$6,650 thousand and NT\$9,365 thousand, respectively.

The expected and actual creditable ratio for 2002 and 2001 was 0.03% and 0.04%, respectively.

The imputation credit allocated to each shareholder shall be based on the balance in the ICA on the date of distribution of dividends; thus the expected creditable ratio for 2002 may be adjusted according to the difference between the expected and actual imputation credit allowed under the regulation.

e. As of December 31, 2002 and 2001, the unappropriated retained earnings generated up to December 31, 1997, was NT\$0 and NT\$4,827 thousand.

f. As of December 31, 2002, TSMC's investment tax credits consisted of the following:

Regulation	Items	Total	Remaining	
		Creditable	Creditable	Expire
		Amounts	Amounts	Year

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Statute for Upgrading Industries	Purchase of machinery and equipment	\$	\$	
		4,237,050		2002
		4,767,347	4,767,347	2003
		8,180,857	8,180,857	2004
		3,110,906	3,110,906	2005
		5,335,558	2,775,029	2006
		<u>\$ 25,631,718</u>	<u>\$ 18,834,139</u>	

(Forward)



Regulation	Items	Total	Remaining	Expire
		Creditable	Creditable	
		Amounts	Amounts	Year
Statute for Upgrading Industries	Research and development expenditures	\$ 562,158	\$	2002
		671,546	671,546	2003
		1,974,320	1,974,320	2004
		3,111,472	3,111,472	2005
		1,540,000	1,540,000	2006
		<u>\$ 7,859,496</u>	<u>\$ 7,297,338</u>	
Statute for Upgrading Industries	Personnel training	\$ 8,822	\$	2002
		16,104	16,104	2003
		43,264	43,264	2004
		28,886	28,886	2005
				<u>\$ 97,076</u>
Statute for Upgrading Industries	Reputation setting	\$ 10,133	\$	2002
		319	319	2003
				<u>\$ 10,452</u>
Statute for Upgrading Industries	Investments in important technology based enterprise	\$ 2,878	\$	2002
		5,420	5,420	2003
		201,372	201,372	2004
		138,864	138,864	2005
		1,947	1,947	2006
		<u>\$ 350,481</u>	<u>\$ 347,603</u>	

g. The sales from the following expansion and construction of TSMC's manufacturing plants is exempt from income tax:

	Tax-Exemption Period
Expansion of Fab 1 and Fab 2 modules A and B, Fab 3 and Fab 4, and construction of Fab 5	1999 to 2002
Construction of Fab 6	2001 to 2004

h. The tax authorities have examined income tax returns of the Company through 1999. However, the Company is contesting the assessment by the tax authority for 1992, 1993, 1996 and 1997.

## 17. SHAREHOLDERS' EQUITY

TSMC has issued 369,019 thousand American Depositary Shares (ADS) on the New York Stock Exchange as of December 31, 2002. The number of common shares represented by the ADSs is 1,845,097 thousand shares (one ADS represents five common shares).



Capital surplus can only be used to offset a deficit under the ROC Company Law. However, the components of capital surplus generated from donations (donated capital) and the excess of the issue price over the par value of capital stock (including the stock issued for new capital, mergers, and the purchase of treasury stock) can be transferred to capital as stock dividends.

TSMC's Articles of Incorporation provide that the following shall be appropriated from annual net income (less any deficit):

- a. 10% legal reserve;
- b. Special reserve in accordance with relevant laws or regulations;
- c. Remuneration to directors and supervisors and bonus to employees equal to 0.3% and at least 1% of the remainder, respectively. Individuals who receive bonus to employees may include employees of affiliated companies and are approved by the board of directors or a representative of the board of directors;
- d. Dividends to holders of preferred shares equal to a 3.5% annual rate, based on the period which the preferred shares have been outstanding;
- e. The appropriation of the remaining balance after the above shall be decided at the shareholders' meeting.

Dividends are distributed in cash, shares of common stock or a combination of cash and common stock. Distribution of profits is preferably made in the form of stock dividend. The total of cash dividends paid in any given year should not exceed 50% of total dividends distributed.

These appropriations of net income shall be approved by the shareholders in the following year and given effect in the financial statements of that year.

The bonus to employees and the remuneration to directors and supervisors appropriated from the earnings of 2001 were approved in the shareholders' meeting on May 7, 2002 as follows:

	Amounts	Shares (Thousand)
Bonus to employees in stock	\$ 1,070,783	107,078
Remuneration to directors and supervisors in cash	133,848	
	<u>\$ 1,204,631</u>	

The shares distributed as a bonus to employees represent 0.64% of TSMC's total outstanding common shares as of December 31, 2001.

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The above appropriation of the earnings is consistent with the resolution of the meeting of board of directors dated on March 26, 2002. If the above distributable earnings were both paid in cash and charged against the income of 2001, the consolidated basic EPS for the year ended December 31, 2001 would decrease from NT\$0.83 to NT\$0.76.

As of January 16, 2003, the appropriation of the earnings of 2002 has not yet been resolved by the board of directors.

The above information associated with the appropriation of bonus to employees and remuneration to directors and supervisors is available at Market Observation System website.

The aforementioned appropriation for legal reserve shall be made until the reserve equals the aggregate par value of TSMC's outstanding capital stock. The reserve can only be used to offset a deficit; or distribute as a dividend when the balance is 50% of the aggregate par value of the outstanding capital stock of TSMC up to the half amount of the reserve balance.

A special reserve equivalent to the debit balance of any account shown in the shareholder's equity section of the balance sheets (except for the recorded costs of treasury stocks held by subsidiaries), other than the deficit, shall be made from unappropriated retained earnings pursuant to existing regulations promulgated by the Securities and Futures Commission. The special reserve is allowed to be appropriated when the debit balance of such accounts are reversed.

The gain on sales or disposal of property, plant and equipment generated prior to 2000, less the applicable income tax, was reclassified to capital surplus as of each year-end. A gain in the amount of NT\$39,282 thousand, less applicable income tax, was recognized and transferred to the capital surplus at the end of 2001 prior to the amended regulations. To comply with the amended regulations, the aforementioned capital surplus was transferred to retained earnings upon the approval of the shareholders' meeting on May 7, 2002. The shareholders also approved the accumulated capital surplus of NT\$127,236 thousand generated from gains prior to 2000 be transferred to retained earnings, after appropriating the required 10% legal reserve.

Under the Integrated Income Tax System that became effective on January 1, 1998, ROC resident shareholders are allowed a tax credit for the income tax paid by TSMC on earnings generated as of January 1, 1998. An Imputation Credit Account (ICA) is maintained by TSMC for such income tax and the tax credit allocated to each shareholder.

TSMC issued 1,300,000 thousand shares of unlisted Series A preferred stock to certain investors on November 29, 2000. The following are the rights of the preferred shareholders and the related terms and conditions:

Preferred shareholders

- a. are entitled to receive cumulative cash dividends at an annual rate of 3.5%.
- b. are not entitled to receive any common stock dividends (whether declared out of unappropriated earnings or capital surplus).
- c. have priority over the holders of common shares to the assets of the Company available for distribution to shareholders upon liquidation or dissolution, however, the preemptive rights to the assets shall not exceed the issue value of the shares.
- d. have voting rights similar to that of the holders of common shares.

- e. have no right to convert their shares into common shares. The preferred shares are to be redeemed within thirty months from their issuance. The preferred shareholders have the aforementioned rights and the Company's related obligations remain the same until the preferred shares are redeemed by the Company.

On June 25, 2002, the SFC approved TSMC's Employee Stock Option Plan (the Plan I). Plan I provides qualified employees and non-employees with 100,000 thousand units of option rights with each unit representing one common share of stock. The option rights are valid for 10 years and exercisable at certain percentages subsequent to the second anniversary of issuance. Under the terms of the plan, stock options are granted at an exercise price equal to the closing price of TSMC's common shares listed on the Taiwan Stock Exchange at the date of grant. At December 31, 2002, the maximum number of shares authorized to be granted by TSMC, TSMC North America and WaferTech under this plan are 70,000 thousand, 16,000 thousand and 14,000 thousand option rights, respectively. The initial grant of options will be vested 50% two years after the grant date, 75% three years after the grant date and 100% four years after the grant date.

Information with respect to stock option rights activities under Plan I is as follows:

	Option Rights Available For Grant	Outstanding Option Rights	
		Number of Option Rights	Weighted Average Exercise Price (NT\$)
Option rights authorized	100,000		
Options granted	(19,726)	19,726	53
Options exercised			
Options cancelled	357	(357)	53
Balance, December 31, 2002	80,631	19,369	

In 1996, WaferTech adopted an Executive Incentive Plan, which was amended in 1997. Under the 1997 amendment, the Board of Directors approved the Senior Executive Incentive Plan and the Employee Incentive Plan (the Plan II) under which officers, key employees and non-employee directors may be granted option rights. Plan II provides 15,150 thousand option rights. While WaferTech may grant employees option rights that are exercisable at different times or within different periods, it has generally granted option rights which are exercisable on a cumulative basis in annual installments of 25% each on the first, second, third, and fourth anniversaries of the date of grant.

Information with respect to stock option rights activities under Plan II is as follows:

	Option Rights Available For Grant	Outstanding	
		Option Rights	
		Number of	Exercise
		Option Rights	Price (US\$)
Balance, January 1, 2001	3,782	6,837	1.23
Options granted			
Options exercised		(2,949)	1.02
Options cancelled	826	(826)	1.27
Balance, December 31, 2001	4,608	3,062	1.43
Options granted			
Options exercised		(1,260)	1.22
Options cancelled	216	(216)	1.93
Balance, December 31, 2002	4,824	1,586	

Options granted will expire if not exercised at specified dates between May 2006 and June 2011.

In December 2000, WaferTech implemented a Stock Option Buyback Program ( Buyback ) with its employees. The Buyback program provides employees with the right to sell back all vested stock options and outstanding ownership interests granted under the program to WaferTech. The repurchase price for outstanding ownership interests is US\$6. The repurchase price for vested stock options is US\$6 less the exercise price of the option. As of December 31, 2002, the Company has repurchased 2,476 thousand outstanding ownership interests at a cost of US\$15,466 thousand.

#### 18. TREASURY STOCK (COMMON STOCK)

(Shares in Thousand)

Purpose of Purchase	Beginning	Increase	Decrease	Ending
	Shares			Shares
<u>Year ended December 31, 2002</u>				
Reclassification of stocks held by subsidiaries from short/long-term investment to treasury stock	39,270	3,818	1,087	42,001

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On January 1, 2002, TSMC reclassified its capital stock held by its subsidiaries with book value of NT\$2,115,695 thousand from short/long-term investments to treasury stock. Proceeds from sales of treasury stock for the year ended December 31, 2002 were NT\$96,501 thousand. The book value and market value of such treasury stock was NT\$1,923,492 thousand and NT\$2,048,164 thousand, respectively. Effective from January 1, 2002, capital stock held by a subsidiary as an investment is recorded as treasury stock with the holder having the same rights as other common shareholders.



## 19. EARNINGS PER SHARE

Earnings per share (EPS) is computed as follows:

	Amounts (Numerator)		Income Share (Denominator) (Thousand)	EPS (Dollars)	
	Income Before Income Tax	Consolidated Net Income		Income Before Tax	Consolidated Net Income
<b>Year ended December 31, 2002</b>					
Income	\$ 27,222,148	\$ 21,610,291			
Less preferred stock dividends	(455,000)	(455,000)			
<b>Basic earnings per share</b>					
Income available to common shareholders	\$ 26,767,148	\$ 21,155,291	18,580,700	\$ 1.44	\$ 1.14
<b>Diluted earnings per share</b>					
Income available to common shareholders	\$ 26,767,148	\$ 21,155,291	18,580,700	\$ 1.44	\$ 1.14
<b>Year ended December 31, 2001</b>					
Income	\$ 10,786,505	\$ 14,483,174			
Less preferred stock dividends	(455,000)	(455,000)			
<b>Basic earnings per share</b>					
Income available to common shareholders	\$ 10,331,505	\$ 14,028,174	18,622,887	\$ 0.55	\$ 0.75
<b>Diluted earnings per share</b>					
Income available to common shareholders	\$ 10,331,505	\$ 14,028,174	18,622,887	\$ 0.55	\$ 0.75

The potential common shares from the employee stock option plan (see Note 17) are not included in the denominator of the diluted earning-per-share computation as such shares result in a non-dilutive per-share amount using the treasury stock method under the Statement of Financial Accounting Standards No. 24, Earning Per Share .

The average number of shares outstanding for EPS calculation has been adjusted retroactively for issuance of stock dividends and stock bonuses. The retroactive adjustment caused the basic EPS before income tax and after income tax for the year ended of December 31, 2001 to decrease from NT\$0.61 and NT\$0.83 to NT\$0.55 and NT\$0.75, respectively.

## 20. RELATED PARTY TRANSACTIONS

The Company engaged in business transactions with the following related parties:

- a. Industrial Technology Research Institute (ITRI), the Chairman of TSMC is one of its directors.
- b. Philips Electronics N.V., (Philips), a major shareholder of TSMC

## c. Investees of TSMC

VIS

SSMC

The transactions with the aforementioned parties, in addition to those disclosed in other notes, are summarized as follows:

	2002		2001	
	Amount	%	Amount	%
<u>For the year ended</u>				
Sales				
Philips and its affiliates	\$ 2,909,008	2	\$ 2,389,257	2
ITRI	94,409		114,546	
VIS	92,119		1,177,094	1
SSMC	7,018		48,972	
	<u>\$ 3,102,554</u>	<u>2</u>	<u>\$ 3,729,869</u>	<u>3</u>
Purchase				
VIS	\$ 3,469,198	14	\$ 3,801,975	22
SSMC	2,751,297	11	42,984	
	<u>\$ 6,220,495</u>	<u>25</u>	<u>\$ 3,844,959</u>	<u>22</u>
Operating expense Rental				
ITRI	\$ 40,401		\$ 161,604	
Manufacturing expenses Technical service fee				
Philips	\$ 2,849,517	100	\$ 2,418,276	100
Sales of property, plant and equipment				
VIS	\$		\$ 268,871	85
Non-operating income				
SSMC (technical service income mainly)	\$ 126,061	6	\$ 95,284	1
VIS			467	
	<u>\$ 126,061</u>	<u>6</u>	<u>\$ 95,751</u>	<u>1</u>
<u>At December 31</u>				
Receivables				
Philips and its affiliates	\$ 352,706	80	\$ 116,499	24
VIS	58,301	13	320,179	65
ITRI	22,974	5	37,383	7
SSMC	5,678	2	20,671	4
	<u>\$ 439,659</u>	<u>100</u>	<u>\$ 494,732</u>	<u>100</u>



(Forward)

	2002		2001	
	Amount	%	Amount	%
Prepaid expense and other current asset Rent				
ITRI	\$		\$ 42,664	2
Payables				
Philips and its affiliates	\$ 730,847	41	\$ 499,331	48
VIS	653,876	37	548,472	52
SSMC	391,426	22	470	
	\$ 1,776,149	100	\$ 1,048,273	100
Refundable deposits				
VIS	\$ 514,846	92	\$ 750,788	96

Sales to related parties are based on normal selling prices and collection terms, except for sales of property, plant and equipment and technical service fee, which were in accordance with the related contracts.

#### 21. SIGNIFICANT LONG-TERM OPERATING LEASES

TSMC leases land from the Science-Based Industrial Park Administration where its Fab 2 through Fab 14 manufacturing facilities reside. These agreements expire on various dates from March 2008 to December 2020 and have annual rent payments aggregating NT\$225,576 thousand. The agreements can be renewed upon their expiration.

TSMC-North America leases its office premises and certain equipment under non-cancellable operating agreements, which will expire in 2020. TSMC-Europe and TSMC-Japan entered into lease agreements for their office premises, which will expire in 2004. Current annual rent payments aggregate to NT\$115,281 thousand.

Future remaining lease payments are as follows:

Year	Amount
2003	\$ 340,857
2004	343,886
2005	339,821
2006	339,779
2007	336,857
2008 and thereafter	2,073,229
	\$ 3,774,429

22. SIGNIFICANT COMMITMENTS AND CONTINGENCIES

The significant commitments and contingencies of the Company and its subsidiaries as of December 31, 2002 are as follows:

- a. Under a Technical Cooperation Agreement with Philips, as amended on May 12, 1997, TSMC shall pay technical assistance fees as a percentage of net sales, as defined in the agreement, of certain products. The agreement shall remain in force up to July 8, 2007 and thereafter be automatically renewed for successive periods of three years. Under the amended agreement, the fee is subject to deduction by the amounts TSMC pays to any third party for settling any licensing/infringement issue after the first five-year period of the amended agreement, provided that the fee after reduction will not be below a certain percentage of the net selling price.
- b. Subject to certain equity ownership and notification requirements, Philips and its affiliates can avail themselves each year of up to 30% of TSMC's production capacity.
- c. Under a technical cooperation agreement with ITRI, TSMC shall reserve and allocate up to 35% of certain of its production capacity for use by the Ministry of Economic Affairs (MOEA) or any other party designated by the MOEA.
- d. Under several foundry agreements, TSMC shall allocate a portion of its production output for sale to certain major customers from whom guarantee deposits of US\$39,810 thousand had been received as of December 31, 2002.
- e. Under a Shareholders Agreement entered into with Philips and EDB Investments Pte Ltd. on March 30, 1999, the parties formed a joint venture company named Systems on Silicon Manufacturing Company Pte Ltd. (SSMC) for the purpose of constructing an integrated circuit foundry in Singapore, and allow TSMC to invest in 32% of SSMC's capital. TSMC and Philips committed to buy a specific percentage of the production capacity of SSMC. If any party defaults on the agreement and the capacity utilization of SSMC falls below a specific percentage of its total capacity, the defaulting party is required to compensate SSMC for all related unavoidable costs.
- f. TSMC provides technical services to SSMC under a Technical Cooperation Agreement (the Agreement) entered into on May 12, 1999. TSMC receives compensation for such services computed at a specific percentage of net selling prices of specific products sold by SSMC. The Agreement remains in force for ten years and is automatically renewed for successive periods of five years unless pre-terminated by either party under certain conditions.
- g. Beginning in 2001, TSMC entered into several license arrangements for certain semiconductor patents. The terms of the contracts range from five to ten years with payments to be paid in the form of royalties over the term of the related contracts. TSMC has recorded the related amounts as a liability and a deferred charge to be amortized to cost of sales on a straight-line basis over the shorter of the estimated useful life of the technology or the term of the contract.

- h. Under a Technology Transfer Agreement with National Semiconductor Corporation ( National ) entered into on June 27, 2000, TSMC shall receive payments for license of certain technology to National. The agreement will remain in force for ten years. After the initial expiration date, this agreement will be automatically renewed for successive periods of two years unless pre-terminated by either party under certain conditions. In January 2003, the agreement was amended such that National will discontinue making payments under the original terms and TSMC will discontinue transferring any additional technology. TSMC granted National the option to request additional technology transfers under the same terms and conditions of the original agreement through January 2008.
- i. TSMC entered into a Manufacturing Agreement with VIS. VIS agrees to reserve certain production capacity for TSMC to manufacture certain logic devices or other technologies required by TSMC's customers at selling prices as agreed by the parties. TSMC paid NT\$1,200,000 thousand to VIS as a security bond. VIS shall return portions of the bond without any interest to TSMC upon the purchase of wafers by TSMC. The contract will remain in force for five years.
- j. In December 2000, TSMC North America and WaferTech initiated stock appreciation right programs whereby the employees receive cash bonuses based on the appreciation of the quoted market price of the shares of stock of TSMC. At December 31, 2002, the exercise price of the stock appreciation right was higher than the market price of TSMC stock, therefore no compensation expense is recognized for the year ended December 31, 2002.
- k. WaferTech caused some contractors to incur additional labor and material costs outside the contracts. WaferTech recorded a reserve of US\$3,000 thousand during 2002 for a litigation arising from a charge by certain contractors.
- l. Unused letters of credit as of December 31, 2002 were NT\$6,480 thousand, US\$1,509 thousand, ¥51,000 thousand, Euro 520 thousand and S\$85 thousand.

### 23. ADDITIONAL DISCLOSURES

Following are the additional disclosures required by the SFC for the Company:

- a. Financing provided: Please see Table 1 attached;
- b. Endorsement/guarantee provided: Please see Table 2 attached;
- c. Marketable securities held: Please see Table 3 attached;
- d. Marketable securities acquired or disposed of at costs or prices of at least NT\$100 million or 20% of paid-in capital: Please see Table 4 attached;
- e. Acquisition of individual real estate properties at costs of at least NT\$100 million or 20% of paid-in capital: Please see Table 5 attached;

- f. Disposal of individual real estate properties at prices of at least NT\$100 million or 20% of paid-in capital: None;
- g. Total purchases from or sales to related parties of at least NT\$100 million or 20% of paid-in capital: Please see Table 6 attached;
- h. Receivable from related parties amounting to at least NT\$100 million or 20% of paid-in capital: Please see Table 7 attached;
- i. Names, locations, and related information of investee on which the Company exercises significant influences: Please see Table 8 attached.
- j. Financial instrument transactions:
- 1) Derivative financial instruments

The relevant information on the derivative financial instruments entered into by the Company is as follows:

- a) Forward exchange contracts as of December 31, 2002

	Contract		Fair Value		Settlement Date		Maturity	
	Currency	Amount (Thousand)		(Thousand)			(Thousand)	
Sell	USD	\$ 715,000	NT\$	24,874,483	Jan. 2, 2003	Feb. 24, 2003	NT\$	24,886,765
Buy	EUR	89,000	NT\$	3,231,707	Jan. 15, 2003	Mar. 14, 2003	NT\$	3,234,260
Buy	JPY	¥ 4,274,850	NT\$	1,249,159	Jan. 6, 2003	Jan 15, 2003	NT\$	1,250,394

As of December 31, 2002, receivables from forward exchange contracts (included in other current assets account) aggregate to NT\$199,609 thousand, and payables from forward exchange contracts (included in other current liabilities account) aggregate to NT\$17,538 thousand. The net exchange gain for the year ended December 31, 2002 was NT\$1,522,383 thousand.

The net assets and liabilities hedged by the above forward exchange contracts are as follows:

	Amount (Thousand)
Accounts receivable	US\$487,905
Accounts payable	JP¥4,287,733
Accounts payable	EUR 49,026



## b) Interest rate swaps

The Company entered into interest rate swap contracts to hedge exposures from rising interest rates on its floating rate long-term loans. Interest expense on these transactions for the year ended December 31, 2002 were NT\$261,107 thousand. Outstanding contracts as of December 31, 2002 were as follows:

Contract Date	Period		Amount	
			(Thousand)	
April 28, 1998	May 21, 1998	May 21, 2003	NT\$	2,000,000
April 29, 1998	May 21, 1998	May 21, 2003	NT\$	1,000,000
June 26, 1998	June 26, 1998	June 26, 2003	NT\$	1,000,000
June 26, 1998	July 6, 1998	July 6, 2003	NT\$	1,000,000
July 1, 1999	July 1, 1999	June 28, 2004	US\$	11,429

## c) Option contracts

The Company entered into foreign currency option contracts to hedge risks of exchange rate fluctuations arising from its anticipated U.S. dollar cash receipts on export sales and its European and Yen currency obligations for purchases of machinery and equipment.

Outstanding option contracts as of December 31, 2002 were as follows:

Type	Contract	Currency	Contract		Strike Price	Maturity
			Amount (Thousand)	Carrying Value		
European	Call option written	USD	\$ 230,000	\$	32.78 33.22	Jan. 9, 2003
					(US\$/NT\$)	Feb. 25, 2003
European	Call option written	USD	\$ 10,000		119.2	Feb. 30, 2003
					(US\$/JPY)	Feb. 27, 2003
European	Put option written	EUR	10,000		1.017	Jan. 30, 2003
					(US\$/EUR)	Feb. 27, 2003

For the year ended December 31, 2002, the Company recognized premium income of NT\$ 228,030 thousand and premium expense of NT\$647,543 thousand.

## d) Transaction risk

- i) Credit risk. The banks, which are the counter-parties to the foregoing derivative financial instruments, are reputable financial institutions. Management believes its exposures related to the potential default by those counter-parties are low.

- ii) Market price risk. All derivative financial instruments are intended as hedges for fluctuations in currency exchange rates on the Company's foreign currency denominated receivables or payables and interest rate fluctuations on its floating rate long-term loans. Gains or losses from forward exchange contracts are likely to be offset by gains or losses from the hedged receivables and payables. Interest rate risks are also controlled as the expected cost of capital is fixed. Thus, market price risks are believed to be minimal.
  
- iii) Liquidity and cash flow requirements. The cash flow requirements on

forward contracts are limited to the net differences between the current exchange rates and the contracted forward rates at the date of settlement. The cash flow requirements for interest rate swap contracts is limited to the amounts payable arising from the differences in the rates. In addition, options may not be exercised in the event the strike price is higher than the related market price at the exercise date. Management believes that the foregoing cash flow requirements are not material.

## 2) Fair value of financial instruments

	December 31			
	2002		2001	
	Carrying		Carrying	
	Amount	Fair Value	Amount	Fair Value
<u>Non-derivative financial instruments</u>				
Assets				
Cash and cash equivalents	\$ 67,790,204	\$ 67,790,204	\$ 37,556,295	\$ 37,556,295
Short-term investments	170,012	2,455,582	1,398,071	6,917,133
Receivables from related parties	439,659	439,659	494,732	494,732
Notes and accounts receivable	19,590,942	19,590,942	20,134,218	20,134,218
Long-term investments	10,635,496	12,750,029	11,599,150	16,545,944
Refundable deposits	557,266	557,266	784,089	784,089
Liabilities				
Short-term bank loans	729,813	729,813	6,269,181	6,269,181
Payable to related parties	1,776,149	1,776,149	1,048,273	1,048,273
Accounts payable	5,138,592	5,138,592	1,397,879	1,397,879
Payable to contractors and equipment suppliers	14,132,100	14,132,100	12,867,236	12,867,236
Long-term bank loans (includes current portion)	18,002,054	18,002,054	22,399,360	22,399,360
Bonds (includes current portion)	39,000,000	39,762,245	29,000,000	29,703,063
Other long-term liabilities (includes current portion and other liabilities others)	5,616,220	5,616,220	141,498	141,498
Guarantee deposits	1,395,066	1,395,066	7,212,688	7,212,688
<u>Derivative financial instruments</u>				
Forward exchange contracts (buy)	38,369	26,089		
Forward exchange contracts (sell)	143,702	139,913	(397,117)	(427,225)
Interest rate swaps	(23,994)	(164,342)	26,969	(343,088)
Options	(50,273)	(410,132)	(39,500)	(252,833)

Fair values of financial instruments were determined as follows:

- a) Short-term financial instruments carrying values.
- b) Short-term investments market values.
- c) Long-term investments market value for traded companies and net equity value for non-traded companies.
- d) Refundable deposits, guarantee deposits and other long-term liabilities carrying values.

- e) Long-term bank loan fair values of long-term bank loans are their carrying

values as they use floating interest rate.

- f) Long-term liabilities based on forecasted cash flows discounted at interest rates. Bonds payable is discounted to present value. Fair values of other long-term liabilities are also their carrying values as they use floating interest rate.
- g) Derivative financial instruments based on bank quotations.

The fair values of non-financial instruments were not included in the fair values disclosed above. Accordingly, the sum of the fair values of the financial instruments listed above does not represent the fair value of the Company and its subsidiaries as a whole.

- 3) Investment in Mainland China

TSMC filed an investment project with the Investment Commission of MOEA to establish a foundry in mainland China. As of January 16, 2003, the foregoing project has not been approved by the authority.

## 24. SEGMENT FINANCIAL INFORMATION

- a. Geographic information:

	<u>Overseas</u>	<u>Taiwan</u>	<u>Adjustments and Elimination</u>	<u>Consolidated</u>
<u>2002</u>				
Sales to unaffiliated customers	\$ 95,774,432	\$ 66,526,776	\$	\$ 162,301,208
Transfers between geographic areas	9,537,846	94,434,553	(103,972,399)	
Total sales	<u>\$ 105,312,278</u>	<u>\$ 160,961,329</u>	<u>(\$ 103,972,399)</u>	<u>\$ 162,301,208</u>
Gross profit	<u>(\$ 19,865)</u>	<u>\$ 51,967,145</u>	<u>(\$ 365,870)</u>	<u>\$ 52,313,150</u>
Operating expenses				(20,724,111)
Non-operating income				2,419,467
Non-operating expenses				(6,786,358)
Income before income tax				<u>\$ 27,222,148</u>
Minority interest loss				<u>\$ 24,791</u>
Identifiable assets	<u>\$ 75,840,416</u>	<u>\$ 336,405,063</u>	<u>(\$ 32,338,576)</u>	<u>\$ 379,906,903</u>
Long-term investments				<u>10,635,496</u>

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Total assets					\$ 390,542,399
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2001

Sales to unaffiliated customers	\$		\$ 125,884,892	\$	\$ 125,884,892
Transfers between geographic areas		8,152,070	3,111	(8,155,181)	
Total sales	\$	8,152,070	\$ 125,888,003	(\$ 8,155,181)	\$ 125,884,892

(Forward)

	Adjustments and			Consolidated
	Overseas	Taiwan	Elimination	
Gross profit	(\$ 1,224,832)	\$ 36,381,055	(\$ 1,499,429)	\$ 33,656,794
Operating expenses				(20,878,997)
Non-operating income				6,475,576
Non-operating expenses				(8,466,868)
Income before income tax				\$ 10,786,505
Minority interest income				(\$ 44,009)
Identifiable assets	\$ 73,433,656	\$ 303,954,097	(\$ 22,469,208)	\$ 354,918,545
Long-term investments				11,599,150
Total assets				\$ 366,517,695

b. Gross export sales

Area	2002	2001
North Americas	\$ 95,139,355	\$ 63,893,621
Asia and others	42,020,560	23,874,375
Europe	9,358,802	7,523,873
	\$ 146,518,717	\$ 95,291,869

The export sales information is presented by billed regions.

c. Major customer

The customer with sales greater than 10% of the Company's total sales is as follows:

Customers	2002		2001	
	Amount	%	Amount	%
A Customer	\$ 32,769,054	20	\$ 21,789,769	17





TABLE 1

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

FINANCING PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Financing Name	Counter-party	Financial Statement Account	Maximum Balance for the		Interest Rate	Financing Reason	Transaction	Reasons for	Collateral		Financing Limit for Each Borrowing Company	Financing Amount Limited
			Period	Ending Balance					Allowance for Bad Debt	Item Value		
			(US\$ in Thousand)	(US\$ in Thousand)		(Note 1)	Amounts	Short-term Financing				(US\$ in Thousand)
TSMC International	TSMC Technology Inc.	Other receivables	\$ 536,372	\$ 536,372	4.25%	2	\$	Operating capital	\$	\$	N/A	\$ 34,334
			(US\$15,434)	(US\$ 15,434)								(987 US\$)

Note 1: The No. 2 represents short-term financing.

Note 2: Not exceeding the issued capital of the Company.

TABLE 2

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## ENDORSEMENT/GUARANTEE PROVIDED

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

No.	Endorsement/Guarantee Provider	Counter-party		Limits on Each Counter-party's Endorsement/ Guarantee Amounts	Maximum Balance for the Period (US\$ in Thousand)	Value of Collateral Property, Plant and Equipment Ending Balance (US\$ in Thousand)	Ratio of Accumulated Amount of Collateral to Net Equity of the Latest Financial Statement (Note 3)	Maximum Collateral/Guarantee Amounts Allowable (Note 1)
		Name	Nature of Relationship (Note 2)					
0	TSMC	TSMC Development Inc.	3	(Note 4)	\$ 9,313,804	\$ 6,950,600	2.37%	\$ 59,768,660
					( 268,000) US\$	( 200,000) US\$		
		TSMC North America	2		1,390,120	1,390,120	0.47%	
					( 40,000) US\$	( 40,000) US\$		
		WaferTech	3		15,291,320	15,291,320	5.21%	
					( 440,000) US\$	( 440,000) US\$		

Note 1: 30% of the issued capital of the Company.

Note 2: The No. 2 represents a subsidiary in which TSMC holds directly over 50% of the equity interest.  
The No. 3 represents an investee in which TSMC holds directly and indirectly over 50% of the equity interest.

Note 3: Promissory notes for collateral.

Note 4: Not exceeding 10% of the issued capital of the Company, and also limited to the issued capital of the transaction entity, unless otherwise approved by Board of directors.

TABLE 3

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## MARKETABLE SECURITIES HELD

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	December 31, 2002		Percentage of Ownership	Market Value or Net Asset Value		Note
				Shares (Thousand)	Carrying Value (US\$ in Thousand)		(US\$ in Thousand)		
TSMC	<u>Stock</u>								
	TSMC North America	Subsidiary	Long-term investment	11,000	\$ 173,601	100	\$ 921,883		The treasury stocks in amounts of NT\$748,282 thousand are deducted from the carrying value.
	TSMC Europe	Subsidiary	Long-term investment		13,670	100	13,670		
	TSMC Japan	Subsidiary	Long-term investment	6	94,258	100	94,258		
	VIS	Investee	Long-term investment	556,133	2,415,297	25	4,326,719		The carrying value does not include prepayment for subscribed stock of NT\$849,360 thousand.
	TSMC International	Subsidiary	Long-term investment	987,968	22,265,157	100	22,265,157		
	Chi Cherng Investment	Investee	Long-term investment		41,894	36	501,179		The treasury stocks in amounts of NT\$459,285 thousand are deducted from the carrying value.
	Hsin Ruey Investment	Investee	Long-term investment		39,815	36	500,048		The treasury stocks in amounts of NT\$460,233 thousand are

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TSMC Partners	Subsidiary	Long-term investment	300	3,753,733	100	3,940,495	deducted from the carrying value. The treasury stocks in amounts of NT\$255,692 thousand are deducted from the carrying value.
SSMC	Investee	Long-term investment	382	3,136,115	32	3,136,115	
Emerging Alliance	Subsidiary	Long-term investment		767,239	99	767,239	
Taiwan Mask Corp.		Long-term investment	8,794	32,129	2	160,574	
United Technology Co., Ltd.		Long-term investment	16,783	193,584	11	280,931	
Shin-Etsu Handotai Taiwan Co., Ltd.		Long-term investment	10,500	105,000	7	137,355	
W.K. Technology Fund IV		Long-term investment	5,000	50,000	2	59,866	
Ya Xin Technology	Subsidiary	Long-term investment	34,125	341,250	100	341,250	
Hon Tung Ventures Capital		Long-term investment	8,392	83,916	10	71,216	
Amkor Technology		Long-term investment	505	280,748		89,866	
Monolithic System Tech.		Long-term investment	470	104,289	2	214,949	

(Forward)

December 31, 2002										
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Shares (Thousand)	Carrying Value		Market Value or Net Asset Value		Note	
					(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)			
	Crimson Asia Capital		Long-term investment	N/A	\$	41,988	N/A	\$	41,988	
	Horizon Ventures		Long-term investment	N/A		195,452	N/A		195,452	
TSMC North America	<u>Stock</u>									
	TSMC	Parent company	Long-term investment	12,692		748,282			610,434	
Chi Cherng Investment	<u>Stock</u>									
	TSMC	Parent company	Short-term investment	12,738		459,285			612,636	
	<u>Certificate</u>									
	Hsin Ruey Investment	Major shareholder	Long-term investment			900,109	64		900,109	
Hsin Ruey Investment	<u>Stock</u>									
	TSMC	Parent company	Short-term investment	12,762		460,233			613,782	
	<u>Certificate</u>									
	Chi Cherng Investment	Major shareholder	Long-term investment			902,137	64		902,137	
TSMC International	<u>Stock</u>									
	InveStar Semiconductor Development Fund, Inc.	Subsidiary	Long-term investment	45,000	US\$	44,634	97	US\$	44,634	
	InveStar Semiconductor Development Fund (II), Inc.	Subsidiary	Long-term investment	51,300	US\$	43,179	97	US\$	43,179	
	TSMC Development, Inc.	Subsidiary	Long-term investment	1	US\$	307,094	100	US\$	307,094	
	TSMC Technology, Inc.	Subsidiary	Long-term investment	1	US\$	2,321	100	US\$	2,321	
	3DFX Interactive, Inc.		Long-term investment	68						
VIS	<u>Stock</u>									
	VIS Associates, Inc.	Subsidiary	Long-term investment	41,070		1,193,891	100		1,193,891	
	PowerChip Semiconductor, Inc.	Investee	Long-term investment	191,671		2,100,716	7		2,100,716	
	Etron Technology, Inc.	Investee	Long-term investment	4,859		101,839	2		101,839	
	Walsin Technology, Inc.	Investee	Long-term investment	34,551		302,559	8		302,559	
	MEGIC Corporation	Investee	Long-term investment	16,500		177,000	9		156,819	
	Form Factor, Inc.	Investee	Long-term investment	267		64,360	1		64,360	The amount is shown in the carrying value.
	United Technology Co., Ltd.	Investee	Long-term investment	3,357		38,716	2		56,206	
VIS Associates Inc.	<u>Stock</u>									
	VIS Investment Holding, Inc.	Subsidiary	Long-term investment	63	US\$	397	100	US\$	397	

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<u>Equity</u>							
Silicon Valley Equity Fund	Long-term investment	US\$	7,317	34	US\$	7,386	
Silicon Valley Equity Fund II	Long-term investment	US\$	5,355	14	US\$	5,355	

(Forward)

									December 31, 2002		
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Shares (Thousand)	Carrying Value		Market Value or Net Asset Value		Note		
					(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)				
	<u>Equity certificate</u>										
	ABN AMRO Bank		Long-term investment	3,648	US\$ 817		US\$ 817				
	<u>Fund</u>										
	Grand Palace Trust		Long-term investment		US\$ 2,719	100	US\$ 2,719				
VIS Investment Holding, Inc.	<u>Stock</u>										
	VIS Micro, Inc.	Subsidiary	Long-term investment	200	US\$ 279	100	US\$ 279				
TSMC Development, Inc.	<u>Stock</u>										
	WaferTech	Subsidiary	Long-term investment		US\$ 326,609	99	US\$ 326,609				
TSMC Partners	<u>ADR</u>										
	TSMC	Parent company	Short-term investment	762	US\$ 7,357		US\$ 6,080				
InveStar Semiconductor Development Fund Inc.	<u>Stock</u>										
	Marvell Technology Group Ltd.		Short-term investment	3,413	US\$ 3,350		US\$ 69,181				
	Silicon Laboratories		Short-term investment	9	US\$ 287		US\$ 202				
	WGRD		Short-term investment	104	US\$ 625		US\$ 635				
	Programmable Microelectronics, (Taiwan) Inc.		Long-term investment	1,580	US\$ 1,566	3	US\$ 1,566				
	Divio, Inc.		Long-term investment	30	US\$ 3		US\$ 3				
	Global Test Corp.		Long-term investment	13,268	US\$ 5,176	10	US\$ 5,176				
	Chipstrate Technologies, Inc.		Long-term investment	6,660	US\$ 300	9	US\$ 300				
	Richtek Technology Holding Corp.		Long-term investment	1,023	US\$ 346	6	US\$ 346				
	Advanced Power Electronics, Corp.		Long-term investment	2,750	US\$ 1,345	6	US\$ 1,345				
	<u>Preferred stock</u>										
	Integrated Memory Logic, Inc.		Long-term investment	1,831	US\$ 1,809	12	US\$ 1,809				
	Divio, Inc.		Long-term investment	667	US\$ 500	4	US\$ 500				
	SiRF Technology Holdings, Inc.		Long-term investment	306	US\$ 1,333	1	US\$ 1,333				
	Capella Microsystems, Inc.		Long-term investment	300	US\$ 481	8	US\$ 481				
	Sensory, Inc.		Long-term investment	1,404	US\$ 625	5	US\$ 625				
	Equator Technologies, Inc.		Long-term investment	300	US\$ 258	1	US\$ 258				
	LightSpeed Semiconductor Corporation		Long-term investment	2,252	US\$ 1,339	3	US\$ 1,339				
	Tropian, Inc.		Long-term investment	1,758	US\$ 2,334	3	US\$ 2,334				
	Sonics, Inc.		Long-term investment	2,686	US\$ 3,530	5	US\$ 3,530				
	Atheros Communications, Inc.		Long-term investment	1,607	US\$ 3,593	3	US\$ 3,593				
	NanoAmp Solutions, Inc.		Long-term investment	541	US\$ 853	3	US\$ 853				
	FormFactor, Inc.		Long-term investment	267	US\$ 2,000	1	US\$ 2,000				
	Monolithic Power Systems, Inc.		Long-term investment	2,521	US\$ 2,000	12	US\$ 2,000				

(Forward)



December 31, 2002									
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Carrying Value			Market Value or Net Asset Value		Note
				Shares (Thousand)	(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)		
	Memsic, Inc.		Long-term investment	2,727	US\$ 1,500	12	US\$ 1,500		
	Reflectivity, Inc.		Long-term investment	1,064	US\$ 1,192	4	US\$ 1,192		
	Signia Technologies, Inc.		Long-term investment	3,000	US\$ 300	8	US\$ 300		
	Match Lab, Inc.		Long-term investment	1,875	US\$ 1,500	9	US\$ 1,500		
	HiNT Corporation		Long-term investment	1,000	US\$ 1,000	6	US\$ 1,000		
	Ordius, Inc. (Creosys, Inc.)		Long-term investment	1,500	US\$ 450	8	US\$ 450		
	Incentia Design Systems, Inc.		Long-term investment	286	US\$ 500	2	US\$ 500		
	IP Unity		Long-term investment	1,008	US\$ 1,636	2	US\$ 1,636		
InveStar Semiconductor Development Fund (II) Inc.	<u>Stock</u>								
	WGRD		Short-term investment	105	US\$ 630		US\$ 640		
	Procoat Technology		Long-term investment	3,500	US\$ 1,942	12	US\$ 1,942		
	Richtek Technology Corporation		Long-term investment	845	US\$ 1,006	3	US\$ 1,006		
	Programmable Microelectronics (Taiwan), Inc.		Long-term investment	487	US\$ 140	1	US\$ 140		
	Auden Technology MFG. Co., Ltd.		Long-term investment	953	US\$ 1,117	4	US\$ 1,117		
	Geo Vision, Inc.		Long-term investment	180	US\$ 129	2	US\$ 129		
	EoNEX Technologies, Inc.		Long-term investment	40	US\$ 2,024	6	US\$ 2,024		
	Conwise Technology Co., Ltd.		Long-term investment	2,800	US\$ 1,930	14	US\$ 1,930		
	Yi Yang Technology		Long-term investment	2,800	US\$ 967	9	US\$ 967		
	Goyatek Technology Inc.		Long-term investment	1,740	US\$ 1,787	8	US\$ 1,787		
	Trendchip Technologies Corp.		Long-term investment	2,000	US\$ 864	5	US\$ 864		
	<u>Preferred stock</u>								
	Memsic, Inc.		Long-term investment	2,289	US\$ 1,560	11	US\$ 1,560		
	OEpic, Inc.		Long-term investment	2,696	US\$ 1,240	7	US\$ 1,240		
	Equator Technologies, Inc.		Long-term investment	770	US\$ 452	1	US\$ 452		
	NanoAmp Solutions, Inc.		Long-term investment	250	US\$ 1,000	1	US\$ 1,000		
	Signia Technologies, Inc.		Long-term investment	1,500	US\$ 150	4	US\$ 150		
	Advanced Analogic Technology, Inc.		Long-term investment	948	US\$ 1,261	2	US\$ 1,261		
	Monolithic Power Systems, Inc.		Long-term investment	804	US\$ 1,946	4	US\$ 1,946		
	Ralink Technologies, Inc.		Long-term investment	1,833	US\$ 1,500	6	US\$ 1,500		
	Sonics, Inc.		Long-term investment	3,082	US\$ 3,082	5	US\$ 3,082		
	Newport Opticom, Inc.		Long-term investment	1,157	US\$ 810	9	US\$ 810		
	Silicon Data, Inc.		Long-term investment	2,000	US\$ 1,000	7	US\$ 1,000		
	Reflectivity, Inc.		Long-term investment	1,596	US\$ 1,500	6	US\$ 1,500		

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Capella Microsystems, Inc.	Long-term investment	800	US\$	200	4	US\$	200
Angstrom Systems, Inc.	Long-term investment	1,567	US\$	750	7	US\$	750
Tropian, Inc.	Long-term investment	1,464	US\$	2,000	2	US\$	2,000
SiRF Technology Holdings, Inc.	Long-term investment	20	US\$	131		US\$	131
LeadTONE Wireless, Inc.	Long-term investment	680	US\$	238	6	US\$	238
Match Lab, Inc.	Long-term investment	313	US\$	250	2	US\$	250
eBest!, Inc.	Long-term investment	185	US\$	97	1	US\$	97
Kilopass Technologies, Inc.	Long-term investment	3,887	US\$	2,000	18	US\$	2,000

(Forward)

									December 31, 2002		
Held Company Name	Type and Name of Marketable Security	Relationship with the Company	Financial Statement Account	Shares (Thousand)	Carrying Value		Market Value or Net Asset Value		Note		
					(US\$ in Thousand)	Percentage of Ownership	(US\$ in Thousand)				
									<u>Bond</u>		
	eBest!, Inc.		Long-term investment		US\$	24		US\$	24		
									<u>Stock</u>		
Emerging Alliance	Global Investment Holding, Inc.	Investee	Long-term investment	10,000	\$	100,000	6	\$	100,000		
									<u>Preferred stock</u>		
	Quake Technologies, Inc.		Long-term investment	467	US\$	1,000	1	US\$	1,000		
	Pixim, Inc.		Long-term investment	833	US\$	2,500	3	US\$	2,500		
	Newport Opticom, Inc.		Long-term investment	962	US\$	1,000	6	US\$	1,000		
	NetLogic Microsystems, Inc.		Long-term investment	602	US\$	1,850	1	US\$	2,932		
	Ikanos Communication, Inc.		Long-term investment	1,741	US\$	1,500	2	US\$	1,500		
	Quicksilver Technology, Inc.		Long-term investment	1,475	US\$	2,338	4	US\$	2,338		
	Litchfield Communications		Long-term investment	3,799	US\$	1,000	6	US\$	1,000		
	Mosaic Systems		Long-term investment	2,481	US\$	500	6	US\$	500		
	Accelerant Networks		Long-term investment	441	US\$	1,000	1	US\$	1,000		
	Zenesis Technologies		Long-term investment	861	US\$	500	4	US\$	500		
	Reflectivity, Inc.		Long-term investment	1,596	US\$	1,500	5	US\$	1,500		
	Iridigm Display		Long-term investment	305	US\$	502	2	US\$	502		
	Spreadtrum		Long-term investment		US\$	1,000		US\$	1,000	Prepayment for subscribed stock	
	XHP Microsystem		Long-term investment	2,279	US\$	750	6	US\$	750		

TABLE 4

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$100 MILLION OR 20%

## OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Type and Name of Marketable Security	Financial Statement Account	Counter-party	Nature of Relationship	Beginning Balance		Acquisition		Disposal			Gain (Loss) on Disposal (US\$ in Thousand)	Share (Thou-
				Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Shares (Thousand)	Amount (US\$ in Thousand)	Carrying Value (US\$ in Thousand)		
	Long-term investment	SSMC	Investee	301	\$ 2,907,967	81	\$ 1,421,846	\$	\$	\$		
Monolithic Tech.	Long-term investment	TSMC-BVI	Subsidiary	779,968	19,987,814	208,000	7,280,000				98	
Long-term investment	Long-term investment	Monolithic System Tech.	Investee			470	104,289					
Long-term investment	Long-term investment	Emerging Alliance Fund, LP	Subsidiary		741,617		168,615					
Long-term investment	Long-term investment	VIS	Investee	556,133	3,377,526	121,338	849,360				67	
Long-term investment	Long-term investment	Ya Xin Technology	Subsidiary			(Note 2) 34,125	(Note 2) 341,250				3	
Long-term investment	Long-term investment	TSMC Development, Inc.	Subsidiary	1	US\$ 201,231		US\$ 208,000					
Long-term investment	Long-term investment	InveStar Semiconductor	Subsidiary	45,000	US\$ 45,766	6,300	US\$ 6,300				5	
Long-term investment	Long-term investment	Development Fund (II), Inc. WaferTech	Subsidiary		US\$ 226,541		US\$ 120,000					
Short-term investment	Short-term investment			26,278	350,000	33,108	450,000	59,386	807,970	800,000	7,970	
						70,860	850,000	70,860	853,974	850,000	3,974	

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	Short-term investment									
P ROC	Short-term investment	25,923	350,000			25,923	356,458	350,000	6,458	
	Short-term investment			3,814	580,000	3,814	582,977	580,000	2,977	
N	Short-term investment			43,630	550,000	43,630	554,407	550,000	4,407	
i Chian	Short-term investment	28,409	400,000			28,409	402,869	400,000	2,869	
<u>certificate</u>										
MRO	Long-term investment	23,168	US\$ 10,047	1,194	US\$ 536	20,714	US\$ 14,806	US\$9,766	US\$ 5,706	
	(Note 3)									(Note 4)

Note 1: The ending balance included the recognition of the investment income (loss) by the equity method and the accumulated translation adjustment.

Note 2: Prepayment for the subscribe stock.

Note 3: This equity certificate had been reclassified from short-term investment to long-term investment starting from July 2002.

Note 4: The total book value for sale is US\$9,100 thousand and with the unrealized loss on long-term investment is US\$666 thousand.

TABLE 5

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## ACQUISITION OF INDIVIDUAL REAL ESTATE AT COSTS OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Transaction Date	Transaction Amount	Payment Term	Counter-party	Nature of Relationship	Prior Transaction of Related Counter-party			Price Reference	
					Owner	Relationship	Transfer Date		
June 19, 2002	\$263,000	By the construction progress	Mandartech Interiors, Inc.		N/A	N/A	N/A	N/A	Public bidding
July 11, 2002	137,402	By the construction progress	UISC		N/A	N/A	N/A	N/A	Public bidding
August 6, 2002	124,775	By the construction progress	Meissner & Wurst		N/A	N/A	N/A	N/A	Public bidding
November 15, 2002	244,654	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding
April 9, 2002	135,000	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding
April 12, 2002	109,880	By the construction progress	Great Construction System, Inc.		N/A	N/A	N/A	N/A	Public bidding
June 24, 2002	984,995	By the construction progress	Fu Tsu Construction Co., Ltd.		N/A	N/A	N/A	N/A	Public bidding

TABLE 6

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## TOTAL PURCHASE FROM OR SALE TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

For the Year Ended December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable	
			Purchase/Sale	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total
TSMC North America	Subsidiary	Sales	\$ 94,433,401	57	30 days from invoice date	None	None	\$ 9,739,236	96	
Philips and its affiliates	Major shareholder	Sales	2,909,008	2	30 days from invoice date	None	None	352,706	3	
WaferTech	Subsidiary	Purchase	9,955,154	41	30 days from monthly closing date	None	None	(617,751)	(25)	
VIS	Investee	Purchase	3,469,198	14	45 days from monthly closing date	None	None	(653,876)	(26)	
SSMC	Investee	Purchase	2,751,297	11	30 days from invoice date	None	None	(391,426)	(16)	

TABLE 7

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Company Name	Related Party	Nature of Relationship	Ending Balance	Turnover Rate	Overdue		Amounts Received in Subsequent Period	Allowance for Bad Debts
					Amount	Action Taken		
TSMC	TSMC North America	Subsidiary	\$ 9,739,236	18 days	\$ 3,709,733	Accelerate demand on accounts receivable	\$ 2,155,511	\$
	Philips and its affiliates	Major shareholder	352,706	29 days	55,050	Accelerate demand on accounts receivable	69,090	



TABLE 8

## TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. AND SUBSIDIARIES

## NAMES, LOCATIONS, AND RELATED INFORMATION OF INVESTEEES ON WHICH THE COMPANY EXERCISES SIGNIFICANT INFLUENCE

December 31, 2002

(Amounts in Thousand New Taiwan Dollars, Unless Otherwise Specified)

Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2002				
			December 31, 2002	Dec. 31, 2001	Shares (Thousand)	Percentage of Ownership	Carrying Value (Note 1)	Net Income (Loss) of the Investee	Investment Gain (Loss) (Note 2)
TSMC North America	San Jose, California, U.S.A.	Marketing and engineering support	\$ 333,178	\$ 333,178	11,000	100	\$ 173,601	\$ 140,654	\$ 139,021
TSMC Europe	Amsterdam, The Netherlands	Marketing and engineering support	2,960	2,960		100	13,670	(1,615)	1,615
TSMC Japan	Yokohama, Japan	Marketing and engineering support	83,760	83,760	6	100	94,258	3,145	6,045
VIS	Hsin-Chu, Taiwan	IC Design and manufacturing	6,503,640	6,503,640	556,133	25	2,415,297	(3,250,831)	(821,771)
			(Note 3)				(Note 3)		
TSMC International	Tortola, British Virgin Islands	Investment	31,445,780	24,165,780	987,968	100	22,265,157	(4,714,203)	(4,714,203)
Chi Cherng Investment	Taipei, Taiwan	Investment	300,000	100,000		36	41,894	13,821	13,122
Hsin Ruey Investment	Taipei, Taiwan	Investment	300,000	100,000		36	39,815	12,533	6,632
TSMC Partners	Tortola, British Virgin Islands	Investment	10,350	10,350	300	100	3,753,733	924,362	993,292
SSMC	Singapore	Manufacturing wafers	6,408,190	4,986,344	382	32	3,136,115	(3,609,569)	(1,155,076)
Emerging Alliance	Cayman Islands	Investment	1,005,660	837,045		99	767,239	(142,865)	(142,151)
Ya Xin Technology	Taipei, Taiwan	Electronic manufacturing	341,250		34,125	100	341,250		

Note 1: The treasury stocks are not deducted from the carrying values.

Note 2: The gain from sales of treasury stock of NT\$43,036 thousand, which was transferred to capital surplus, was not deducted from the investment gain (loss).

Note 3: The amount has not included the prepayment for the subscribed shares of 121,338 shares with total amount of NT\$849,360 thousand.