SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORP

Form 20-F June 28, 2011

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 20-F

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended December 31, 2010 Commission file number 1-31994

Semiconductor Manufacturing International Corporation
(Exact name of Registrant as specified in its charter)
Not Applicable
(Translation of Registrant s name into English)

(Jurisdiction of incorporation or organization)
18 Zhangjiang Road, Pudong New Area, Shanghai, China 201203
(Address of principal executive offices)
Mr. Gary Tseng, Chief Financial Officer

Cayman Islands

Telephone: (8621) 3861-0000 Facsimile: (8621) 3895-3568

(Name, Telephone, E-mail and/or Facsimile Number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act.

Title of each class

Name of each exchange on which registered

Ordinary Shares, par value US\$0.0004 American Depositary Shares The Stock Exchange of Hong Kong Limited*
The New York Stock Exchange, Inc.

Securities registered or to be registered pursuant to Section 12(g) of the Act.

None

(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

None

(Title of Class)

Indicate the number of outstanding shares of each of the issuer s classes of capital or ordinary shares as of the close of the period covered by the annual report.

As of December 31, 2010, there were 27,334,063,747 ordinary shares, par value US\$0.0004 per share, outstanding, of which 2,229,887,950 ordinary shares were held in the form of 44,597,759 ADSs. Each ADS represents 50 ordinary shares.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes b No o

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15 (d) of the Securities Exchange Act of 1934. Yes o No b

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes β No o Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of accelerated filer and large accelerated filer in Rule 12b-2 of the Securities Exchange Act of 1934 (Check one):

Large accelerated Accelerated filer o Non-accelerated filer o Smaller reporting filer þ company o

(Do not check if a smaller reporting company)

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP b International Financial Reporting Standards as issued by the International Accounting Standards Board o

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities Exchange Act of 1934). Yes o No þ

^{*} Not for trading, but only in connection with the listing of American Depositary Shares on the New York Stock Exchange, Inc.

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CAUTIONARY STATEMENT FOR PURPOSES OF THE SAFE HARBOR PROVISIONS OF THE PRIVATE SECURITIES LITIGATION REFORM ACT OF 1995

This annual report contains, in addition to historical information, forward-looking statements within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on SMIC s current assumptions, expectations and projections about future events. SMIC uses words like believe. anticipate. intend. estimate. expect. project and similar expressions to identify forward loc statements, although not all forward-looking statements contain these words. These forward-looking statements are necessarily estimates reflecting the best judgment of SMIC s senior management and involve significant risks, both known and unknown, uncertainties and other factors that may cause SMIC s actual performance, financial condition or results of operations to be materially different from those suggested by the forward-looking statements including, among others, risks associated with cyclicality and market conditions in the semiconductor industry, intense competition, timely wafer acceptance by SMIC s customers, timely introduction of new technologies, SMIC s ability to ramp new products into volume, supply and demand for semiconductor foundry services, our anticipated capital expenditures for 2011, our anticipated investments in research and development, anticipated changes to our liability for unrecognized tax benefits, industry overcapacity, shortages in equipment, components and raw materials, availability of manufacturing capacity and financial stability in end markets.

Except as required by law, SMIC undertakes no obligation and does not intend to update any forward-looking statement, whether as a result of new information, future events or otherwise.

ADDITIONAL INFORMATION

References in this annual report to:

Average selling price of wafers are to simplified average selling price which is calculated as total revenue divided by total shipments.

China or the PRC are to the People s Republic of China, excluding for the purpose of this annual report, Hong Kong, Macau and Taiwan:

Company or SMIC are to Semiconductor Manufacturing International Corporation;

EUR are to Euros:

global offering are to the initial public offering of our ADSs and our ordinary shares, which offering was completed on March 18, 2004;

HK\$ are to Hong Kong dollars;

NYSE or New York Stock Exchange are to the New York Stock Exchange, Inc.;

Rmb or RMB are to Renminbi:

SEC are to the U.S. Securities and Exchange Commission;

SEHK, HKSE or Hong Kong Stock Exchange are to The Stock Exchange of Hong Kong Limited; and

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US\$ or USD are to U.S. dollars.

All references in this annual report to silicon wafer quantities are to 8-inch wafer equivalents, unless otherwise specified. Conversion of quantities of 12-inch wafers to 8-inch wafer equivalents is achieved by multiplying the number of 12-inch wafers by 2.25. When we refer to the capacity of wafer fabrication facilities, we are referring to the installed capacity based on specifications established by the manufacturers of the equipment used in those facilities. References to key process technology nodes, such as 0.35 micron, 0.25 micron, 0.18 micron, 0.15 micron, 0.13 micron, 90 nanometer, and 65 nanometer and 45 nanometer include the stated resolution of the process technology, as well as intermediate resolutions down to but not including the next key process technology node of finer resolution. For example, when we state 0.25 micron process technology, that also includes 0.22 micron, 0.21 micron, 0.20 micron and 0.19 micron technologies and 0.18 micron process technology also includes 0.17 micron and 0.16 micron technologies; References to U.S. GAAP mean the generally accepted accounting principles in the United States. Unless otherwise indicated, our financial information presented in this annual report has been prepared in accordance with U.S. GAAP.

All references to our ordinary shares in this annual report gives effect to the 10-for-1 share split we effected in the form of a share dividend immediately prior to the completion of the global offering. All references to price per ordinary share and price per preference share reflect the share split referenced above.

The Glossary of Technical Terms contained in Annex A of this annual report sets forth the description of certain technical terms and definitions used in this annual report.

PART I

Item 1. Identity of Directors, Senior Management and Advisors

Not applicable.

Item 2. Offer Statistics and Expected Timetable

Not applicable.

Item 3. Key Information

Selected Consolidated Financial Data

The selected consolidated financial data presented below as of and for the years ended December 31, 2008, 2009 and 2010 are derived from, and should be read in conjunction with, and are qualified in their entirety by reference to, our audited consolidated financial statements, including the related notes, included elsewhere in this annual report. The selected consolidated financial data as of and for the years ended December 31, 2006 and 2007 is derived from our audited consolidated financial statements not included in this annual report. The selected consolidated financial data presented below has been prepared in accordance with U.S. GAAP.

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		For the	year ended Dece	mber 31,			
	2006	2007	2008	2009	2010		
(in US\$ thousands, except for share, ADS, percentages, and operating data)							
Statement of Operations							
Data: Sales	\$1 465 222	¢1 540 765	\$1,353,711	\$ 1,070,387	¢1 <i>551</i> 700		
Cost of sales ⁽¹⁾	\$1,465,323 1,338,155	\$1,549,765 1,397,038	1,412,851	1,184,589	\$1,554,788 1,244,714		
Gross profit (loss)	127,168	152,727	(59,140)	(114,202)	310,074		
Operating expenses	127,100	132,727	(39,140)	(114,202)	310,074		
(income):							
Research and development	94,171	97,034	102,240	160,754	174,900		
General and administrative	47,365	74,490	67,037	218,688	43,762		
Selling and marketing	18,231	18,716	20,661	26,566	29,498		
Litigation settlement				269,637			
Amortization of acquired							
intangible assets	24,393	27,071	32,191	35,064	27,168		
Impairment loss of							
long-lived assets			106,741	138,295	8,442		
Loss (gain) from sale of							
plant and equipment and							
other fixed assets	(43,122)	(28,651)	(2,877)	3,832	(658)		
Other operating income					(16,493)		
Total operating expenses,							
net	141,038	188,659	325,993	852,836	266,620		
	,	,	7	, , , , , ,	,-		
Income (loss) from							
operations	(13,870)	(35,932)	(385,132)	(967,038)	43,455		
Other income (expenses):					ŕ		
Interest income	14,916	12,349	11,542	2,591	4,127		
Interest expense	(50,926)	(37,936)	(50,767)	(24,699)	(22,656)		
•							
Change in the fair value of							
commitment to issue shares					(20.045)		
and warrants				(30,101)	(29,815)		
F : 1							
Foreign currency exchange	(21.012)	11 250	11 425	7 202	E 025		
gain (loss)	(21,912)	11,250	11,425	7,302	5,025		
Other, net	1,821	2,238	7,429	4,626	8,772		
Total other expense, net	(56,101)	(12,100)	(20,371)	(40,280)	(34,547)		
	(,)	(,)	(,)	(15,200)	(9)		
Income (loss) before income							
tax	(69,971)	(48,032)	(405,503)	(1,007,319)	8,907		
Income tax benefit (expense)	24,928	29,720	(26,433)	46,624	4,818		

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Gain (loss) from equity investment	(4,201)	(4,013)	(444)	(1,782)	285
Net income (loss) before cumulative effect of a change in accounting principle	(49,244)	(22,324)	(432,380)	(962,478)	14,011
Cumulative effect of a change in accounting principle	5,154				

	For the year ended December 31, 2006 2007 2008 2009							2010		
Net income (loss)		(in US\$ (44,090)	tho	(22,324)	or	share, ADS, pere (432,380)	cen	(962,478)	tin	g data) 14,011
Accretion of interest to noncontrolling interest		(19)		2,856		(7,851)		(1,060)		(1,050)
Loss attributed to noncontrolling interest										140
Income (loss) attributable to Semiconductor Manufacturing International Corporation		(44,109)		(19,468)		(440,231)		(963,537)		13,100
Earnings (loss) per share, basic	\$	(0.00)	\$	(0.00)	\$	(0.02)	\$	(0.04)	\$	0.00
Earnings (loss) per share, diluted	\$	(0.00)	\$	(0.00)	\$	(0.02)	\$	(0.04)	\$	0.00
Shares used in calculating basic earnings (loss) per share ⁽²⁾⁽³⁾	18	3,334,498,923	-	18,501,940,489		18,682,544,866		22,359,237,084		24,258,437,559
Shares used in calculating diluted earnings (loss) per share ⁽³⁾	18	3,334,498,923		18,501,940,489		18,682,544,866	,	22,359,237,084		25,416,597,405
Earnings (loss) per ADS, basic ⁽³⁾	\$	(0.12)	\$	(0.05)	\$	(1.18)	\$	(2.15)	\$	0.03
Earnings (loss) per ADS, diluted ⁽³⁾	\$	(0.12)	\$	(0.05)	\$	(1.18)	\$	(2.15)	\$	0.03

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ADS used in calculating basic earnings (loss) per ADS	366,689,978	370,038,810	373,650,897	447,184,742	485,168,751
ADS used in calculating diluted earnings	266 690 079	270.029.910	272 650 907	447 194 749	500 221 0 <i>4</i> 0
(loss) per ADS Other Financial	366,689,978	370,038,810	373,650,897	447,184,742	508,331,948
Data:					
Gross margin	8.70%	9.90%	-4.40%	-10.67%	19.94%
Operating margin	-0.90%	-2.30%	-27.80%	-90.05%	2.79%
Net margin	-3.00%	-1.30%	-32.50%	-89.92%	0.90%
Operating Data: Wafers shipped (in 8 equivalents)					
Total	1,614,888	1,849,957	1,611,208	1,376,663	1,985,974
ASP ⁽⁴⁾	907	838	840	778	783

⁽¹⁾ Including share-based compensation for employees directly involved in manufacturing activities.

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- (2) Anti-dilutive preference shares, options and warrants were excluded from the weighted average ordinary shares outstanding for the diluted per share calculation.
- (3) Fifty ordinary shares equals one ADS.
- (4) Total sales/total wafers shipped.

Balance Sheet Data:	2006	2007	As of December 37 2008 (in US\$ thousands	2009	2010
Balance Sneet Data:					
Cash and cash equivalents	\$ 363,620	\$ 469,284	\$ 450,230	\$ 443,463	\$ 515,808
Restricted cash Short-term investments	57,951	7,638	6,255 19,928	20,360	161,350 2,454
Accounts receivable, net of					
allowances Inventories Total current assets Prepaid land use rights	252,185 275,179 1,049,666 38,323	298,388 248,310 1,075,302 57,552	199,372 171,637 926,858 74,293	204,290 193,705 907,058 78,112	206,623 213,404 1,179,102 78,798
Plant and equipment, net Total assets Total current liabilities Total long-term liabilities	3,244,401 4,541,292 677,362 817,710	3,202,958 4,708,444 930,190 730,790	2,963,386 4,270,622 899,773 578,689	2,251,614 3,524,077 1,031,523 661,472	2,351,863 3,902,693 1,399,345 294,806
Total liabilities	1,495,072	1,660,980	1,478,462	1,692,995	1,694,152
Noncontrolling interest Equity: Ordinary shares, \$0.0004 par value, 50,000,000,000 shares authorized 18,432,756,463, 18,558,919,712, 22,327,784,827, 22,375,886,604 and 27,334,063,747 shares issued and outstanding at December 31, 2006, 2007,	38,800	34,944	42,795	34,842	39,004
2008, 2009 and 2010, respectively Additional paid-in capital	7,373 3,288,765	7,424 3,313,376	8,931 3,489,382	8,950 3,499,723	10,934 3,858,643
Accumulated other comprehensive loss (income) Accumulated deficit Total equity	92 (288,810) \$3,007,420	(2) (308,279) \$3,012,519	(439) (748,509) \$2,749,365	(386) (1,712,047) \$ 1,796,240	(1,092) (1,698,946) \$ 2,169,537

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	For the year ended December 31,							
	2006	2007	2008	2009	2010			
	(in US\$ thousands)							
Cash Flow Data:								
Net income (loss)	\$ (44,090)	\$ (22,324)	\$(432,380)	\$(962,478)	\$ 14,011			
Adjustments to reconcile net	, ,	,	, , ,		ŕ			
income (loss) to net cash								
provided by operating								
activities:								
Depreciation	919,616	706,277	761,809	748,185	584,242			
Net cash provided by								
operating activities	769,649	672,465	569,782	283,566	694,613			
Purchases of plant and	(002 500)	(717.171)	(660.055)	(217.260)	(404 730)			
equipment	(882,580)	(717,171)	(669,055)	(217,269)	(491,539)			
Net cash used in investing	(017.260)	(642 244)	(761 712)	(211 400)	(529 712)			
activities Net cash provided by (used in)	(917,369)	(642,344)	(761,713)	(211,498)	(538,713)			
financing activities	(74,440)	75,637	173,314	(78,902)	(37,851)			
Net increase (decrease) in cash	(74,440)	73,037	173,314	(78,902)	(37,031)			
and cash equivalents	\$(222,177)	\$ 105,664	\$ (19,054)	\$ (6,767)	\$ 72,346			
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Risk Factors

Risks Related to Our Financial Condition and Business

We may not be able to achieve or maintain a level of profitability, primarily due to our high fixed costs and correspondingly high levels of depreciation expenses.

Our losses from operations totaled \$963.5 million in 2009, while income from operations totaled \$13.1 million in 2010. We may not be able to achieve or maintain profitability on an annual or quarterly basis, primarily because our business is characterized by high fixed costs relating to equipment purchases, which result in correspondingly high levels of depreciation expenses. We will continue to incur high capital expenditures and depreciation expenses as we equip and ramp up additional fabs, expand our capacity at our existing fabs and construct new fabs.

The cyclical nature of the semiconductor industry and periodic overcapacity in the industry make our business and operating results particularly vulnerable to economic downturns, such as the global economic crisis.

The semiconductor industry has historically been highly cyclical and, at various times, has experienced significant downturns characterized by fluctuations in end-user demand, reduced demand for integrated circuits, rapid erosion of average selling prices and production overcapacity. Companies in the semiconductor industry have expanded aggressively during periods of increased demand in order to have the capacity needed to meet expected demand in the future. If actual demand does not increase or declines, or if companies in the industry expand too aggressively in light of the actual increase in demand, the industry will generally experience a period in which industry-wide capacity exceeds demand, as was the case in the first quarter of 2009.

An erosion of global consumer confidence amidst concerns over declining asset values, inflation, energy costs, geopolitical issues, the availability and cost of credit, rising unemployment, and the stability and solvency of financial institutions, financial markets, businesses and sovereign nations could have an adverse effect on our results of operations.

Adverse economic conditions could cause our expenses to vary materially from our expectations. The failure of financial institutions could negatively impact our treasury operations, as the financial condition of such parties may deteriorate rapidly and without notice in times of market volatility and disruption. Other income and expense could vary materially from expectations depending on changes in interest rates, borrowing costs and currency exchange rates. Economic downturns may also lead to restructuring actions and associated expenses.

During periods when industry-wide capacity exceeds demand, as was the case in the first quarter of 2009, our operations are subject to more intense competition, and our results of operations are likely to suffer because of the resulting pricing pressure and capacity underutilization. Severe pricing pressure could result in the overall foundry industry becoming less profitable, at least for the duration of the downturn, and could prevent us from achieving or maintaining profitability. We expect that industry cyclicality will continue. In addition, a slowdown in the growth in demand for or the continued reduction in selling prices of, devices that use semiconductors may decrease the demand for our services and reduce our profit margins. If we cannot take appropriate or effective actions in a timely manner during the current and any future economic downturns, such as reducing our costs to sufficiently offset declines in demand for our services, our business and operating results may be adversely affected. A prolonged period of economic decline could have a material adverse effect on our results of operations. Economic uncertainty also makes it difficult for us to make accurate forecasts of revenue, gross margin and expenses.

The loan agreements entered into by members of the Group contain certain restrictions that limit our flexibility in operating our business.

The terms of certain of the existing loan agreements entered into by members of the Group contain, and certain future indebtedness of the Group would likely contain, a number of restrictive covenants that impose significant operating and financial restrictions on the Group, including restrictions on the ability of members the Group to, among other things:

pay dividends;

pay shareholder loans; and

consolidate, merge or sell or otherwise dispose of any of our assets under certain conditions.

In addition, certain loan agreements of the Group contain, and any future loan agreements may contain, cross-default clauses whereby a default under one of the loan agreements may constitute an event of default under the other loan agreements. We may also be required to satisfy and maintain specified financial ratios and other financial covenants. The Group s ability to meet such financial ratios and other covenants can be affected by events beyond our control, and we cannot assure you that we will meet these ratios and comply with such covenants in the future. A breach of any of these covenants would result in a default under the existing loan agreements of the Group, which may allow the lenders to declare all amounts outstanding thereunder to be due and payable after the lapse of the relevant grace period and terminate all commitments to extend further credit, any of which could result in an event of default under the Terms and Conditions of the Notes.

The impact of deteriorating economic conditions on our customers and suppliers could adversely affect our business.

Customer financial difficulties have resulted, and could result in the future, in increases in bad debt write-offs and additions to reserves in our receivables portfolio. In particular, our exposure to certain financially troubled customers could have an adverse affect on our results of operations. In addition, we depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes. Our business may be disrupted if we are unable to obtain these raw materials from our suppliers-and our suppliers from their suppliers-due to the insolvency of key suppliers who may be unable to obtain credit. Although the operations of certain of our suppliers were disrupted by the March 2011 earthquake in Japan, our business was not materially impacted by the natural disaster.

Demand instability for foundry services may result in a lower rate of return on investments than previously anticipated and our business and operating results may be adversely affected.

Until the onset of the global economic crisis, the demand for foundry services by IDMs, fabless semiconductor companies and systems companies had been increasing in recent years. We made significant investments in anticipation of the continuation of this trend. A reversal of this trend will likely result in a lower rate of return on our investments than anticipated. For example, some IDMs may change their strategy and target greater internal production, and consequently may reduce their outsourcing of wafer fabrication. During industry downturn, these IDMs may allocate a smaller portion of their fabricating needs to foundry service providers and perform a greater amount of foundry services for system companies and fabless semiconductor companies in order to maintain their equipment s utilization rates. As a result, our business and operating results may be adversely affected.

Our results of operations may fluctuate from year to year, which may make it difficult to predict our future performance which may be below our expectations or those of the public market analysts and investors in these periods.

Our sales, expenses, and results of operations may fluctuate significantly from year to year due to a number of factors, many of which are outside our control. Our business and operations are subject to a number of factors, including:

our customers sales outlook, purchasing patterns and inventory adjustments based on general economic conditions or other factors;

the loss of one or more key customers or the significant reduction or postponement of orders from such customers:

timing of new technology development and the qualification of this technology by our customers;

timing of our expansion and development of our facilities;

our ability to obtain equipment and raw materials; and

our ability to obtain financing in a timely manner.

Due to the factors noted above and other risks discussed in this section, many of which are beyond our control, you should not rely on year-to-year comparisons to predict our future performance. Unfavorable changes in any of the above factors may adversely affect our business and operating results. In addition, our operating results may be below the expectations of public market analysts and investors in some future periods.

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If we are unable to maintain high capacity utilization, optimize the technology and product mix of our services or improve our yields, our margins may substantially decline, thereby adversely affecting our operating results.

Our ability to achieve and maintain profitability depends, in part, on our ability to:

maintain high capacity utilization, which is the actual number of wafers we produce in relation to our capacity;

optimize our technology and product mix, which is the relative number of wafers fabricated utilizing higher margin technologies as compared to commodity and lower margin technologies; and

continuously maintain and improve our yield, which is the percentage of usable fabricated devices on a wafer.

Our capacity utilization affects our operating results because a large percentage of our costs are fixed. In general, more advanced technologies sell for higher prices and higher margins. Therefore, our technology and product mix has a direct impact upon our average selling prices and overall margins. Our yields directly affect our ability to attract and retain customers, as well as the price of our services. If we are unable to maintain high capacity utilization, optimize the technology and product mix of our wafer production and continuously improve our yields, our margins may substantially decline, thereby adversely affecting our operating results.

Our continuing expansion may present significant challenges to our management and administrative systems and resources, and as a result, we may experience difficulties managing our growth, which may adversely affect our business and operating results.

Since our inception in 2000, we have grown rapidly. Our wafer shipment and sales grew from zero in 2000 to 1,985,974 wafers and US\$1.55 billion in 2010. During this period, we commenced commercial production at two 8-inch fabs (which includes our Shanghai mega fab and Tianjin fab) and one 12-inch mega fab in Beijing, and the range of process technologies we offered grew significantly. We have also undertaken management contracts to manage the operations of wafer manufacturing facilities in Wuhan, China. In addition, we are equipping our new 8-inch fab in Shenzhen. At December 31, 2000, we had 122 employees; and at December 31, 2010, we had 10,076 employees. We may hire additional employees for our fabs in Beijing to meet future increases in production capacity. This expansion, as well as our participation in a joint venture with Toppan Printing Co., Ltd. in Shanghai and a joint venture with United Test and Assembly Center Ltd. to establish an assembly and testing facility in Chengdu (which joint venture, we have substantially exited in 2011), and the management of wafer manufacturing facilities in Chengdu (which fab agreement was subsequently terminated in 2010) and Wuhan, China, have presented, and continue to present, significant challenges for our management and administrative systems and resources. If we fail to develop and maintain management and administrative systems and operating results could be adversely affected.

If we lose one or more of our key personnel without obtaining adequate replacements in a timely manner or if we are unable to retain and recruit skilled personnel, our operations could become disrupted and the growth of our business could be delayed or restricted.

Our success depends on the continued service of our key executive officers, and in particular, David NK Wang, our President and Chief Executive Officer. We do not carry key person insurance on any of our personnel. If we lose the services of any of our key executive officers, it could be very difficult to find, relocate and integrate adequate replacement personnel into our operations, which could seriously harm our operations and the growth of our business.

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We will require an increased number of experienced executives, engineers and other skilled employees in the future to implement our growth plans. There is intense competition for the services of these personnel in the semiconductor industry. In addition, we expect demand for skilled and experienced personnel in China to increase in the future as new wafer fabrication facilities and other similar high technology businesses are established there. If we are unable to retain our existing personnel or attract, assimilate and retain new experienced personnel in the future, our operations could become disrupted and the growth of our business could be delayed or restricted.

Our customers generally do not place purchase orders far in advance, which makes it difficult for us to predict our future sales, adjust our production costs and efficiently allocate our capacity on a timely basis and could therefore have an adverse effect on our business and operating results.

Our customers generally do not place purchase orders far in advance of the required shipping dates. In addition, due to the cyclical nature of the semiconductor industry, our customers—purchase orders have varied significantly from period to period. As a result, we do not typically operate with any significant backlog, which makes it difficult for us to forecast our sales in future periods. Also, since our cost of sales and operating expenses have high fixed cost components, including depreciation and employee costs, we may be unable to adjust our cost structure in a timely manner to compensate for shortfalls in sales. Our current and anticipated customers may not place orders with us in accordance with our expectations or at all. As a result, it may be difficult to plan our capacity, which requires significant lead time to ramp-up and cannot be altered easily. If our capacity does not match our customer demand, we will either be burdened with expensive and unutilized overcapacity or unable to support our customers—requirements, both of which could have an adverse effect on our business and results of operations.

Our sales cycles can be long, which could adversely affect our operating results and cause our income stream to be unpredictable.

Our sales cycles, which measure the time between our first contact with a customer and the first shipment of product orders to the customer, vary substantially and can last as long as one year or more, particularly for new technologies. Sales cycles to IDM customers typically take relatively longer since they usually require our engineers to become familiar with the customer s proprietary technology before production can commence. In addition, even after we make the initial product shipments, it may take the customer several more months to reach full production of that product using our foundry services. As a result of these long sales cycles, we may be required to invest substantial time and incur significant expenses in advance of the receipt of any product order and related revenue. Orders ultimately received may not be in accordance with our expectation with respect to product, volume, price or other terms, which could adversely affect our operating results and cause our income stream to be unpredictable.

We must consistently anticipate trends in technology development or else we will be unable to maintain or increase our business and operating margins.

The semiconductor industry is developing rapidly and the related technology is constantly evolving. If we are unable to anticipate the trends in technology development and rapidly develop and implement new and innovative technology that our customers require, we may not be able to produce sufficiently advanced products at competitive prices. As the life cycle for a process technology matures, the average selling price falls. Accordingly, unless we continually upgrade our capability to manufacture new products that our customers design, our customers may use the services of our competitors instead of ours and the average selling prices of our wafers may fall, which could adversely affect our business and operating margins.

Our sales are dependent upon a small number of customers and any decrease in sales to any of them could adversely affect our results of operations.

We have been dependent on a small number of customers for a substantial portion of our business. For the year ended December 31, 2010, our five largest customers accounted for 53.7% of our total sales. We expect that we will continue to be dependent upon a relatively limited number of customers for a significant portion of our sales. Sales generated from these customers, individually or in the aggregate, may not reach or exceed our expectations or historical levels in any future period. Our sales could be significantly reduced if any of these customers cancels or reduces its orders, significantly changes its product delivery schedule, or demands lower prices, which could have an adverse effect on our results of operations.

Since our operating cash flows will not be sufficient to cover our planned capital expenditures, we will require additional external financing, which may not be available on acceptable terms or at all. Any failure to raise adequate funds in a timely manner could adversely affect our business and operating results.

In 2010, our capital expenditures totaled approximately US\$728 million and we currently expect our capital expenditures in 2011 to total approximately US\$1 billion which is subject to adjustment based on market conditions. These capital expenditures will be used primarily to expand our operations at our mega-fab in Beijing and 12-inch fab in Shanghai. In addition, our actual expenditures may exceed our planned expenditures for a variety of reasons, including changes in our business plan, our process technology, market conditions, equipment prices, customer requirements or interest rates. Future acquisitions, mergers, strategic investments, or other developments also may require additional financing. The amount of capital required to meet our growth and development targets is difficult to predict in the highly cyclical and rapidly changing semiconductor industry.

Our operating cash flows may not be sufficient to meet our capital expenditure requirements in 2011. If our operating cash flows are insufficient, we plan to fund the expected shortfall through bank loans. If necessary, we will also explore other forms of external financing. Our ability to obtain external financing is subject to a variety of uncertainties, including:

our future financial condition, results of operations and cash flows;

general market conditions for financing activities of semiconductor companies;

our future stock price; and

our future credit rating.

External financing may not be available in a timely manner, on acceptable terms, or at all. Since our capacity expansion is a key component of our overall business strategy, any failure to raise adequate funds could adversely affect our business and operating results.

The construction and equipping of new fabs and the expansion of existing fabs are subject to certain risks that could result in delays or cost overruns, which could require us to expend additional capital and adversely affect our business and operating results.

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We plan to continue to expand our business through the development of new and existing fabs. There are a number of events that could delay these expansion projects or increase the costs of building and equipping these or future fabs in accordance with our plans. Such potential events include, but are not limited to:

shortages and late delivery of building materials and facility equipment;

delays in the delivery, installation, commissioning and qualification of our manufacturing equipment;

seasonal factors, such as a long and intensive wet season that limits construction;

labor disputes;

design or construction changes with respect to building spaces or equipment layout;

delays in securing the necessary governmental approvals and land use rights; and

technological, capacity and other changes to our plans for new fabs necessitated by changes in market conditions.

As a result, our projections relating to capacity, process technology capabilities or technology developments may significantly differ from actual capacity, process technology capabilities or technology developments.

Delays in the construction and equipping or expansion of any of our fabs could result in the loss or delayed receipt of earnings, an increase in financing costs, or the failure to meet profit and earnings projections, any of which could adversely affect our business and operating results.

If we cannot compete successfully in our industry, particularly in China, our results of operations and financial condition will be adversely affected.

The worldwide semiconductor foundry industry is highly competitive. We compete with other foundries, such as TSMC, United Microelectronics Corporation, or UMC, and GlobalFoundries, as well as the foundry services offered by some IDMs, such as Samsung Electronics. We also compete with smaller semiconductor foundries in China, Korea, Malaysia and other countries. Some of our competitors have greater access to capital and substantially higher capacity, longer or more established relationships with their customers, superior research and development capability, and greater marketing and other resources than we do. As a result, these companies may be able to compete more aggressively over a longer period of time than we can.

Our competitors have established operations in mainland China in order to compete for the growing domestic market in China. TSMC has commenced commercial production at its fab in China, and UMC has established a relationship with a fab in commercial production in China. We understand that the ability of these fabs to manufacture wafers using certain more advanced technologies is subject to restrictions by the home jurisdiction of TSMC and UMC; however, such restrictions could be reduced or lifted at any time, which may lead to increased domestic competition with such competitors and adversely affect our business and operating results.

Our ability to compete successfully depends to some extent upon factors outside of our control, including import and export controls, exchange controls, exchange rate fluctuations, interest rate fluctuations and political developments. If we cannot compete successfully in our industry or are unable to maintain our position as a leading foundry in China, our results of operations and financial condition will be adversely affected.

We may be unable to obtain in a timely manner and at a reasonable cost the equipment necessary for our business and therefore may be unable to achieve our expansion plans or meet our customers orders, which could negatively impact our competitiveness, financial condition and results of operations.

The semiconductor industry is capital-intensive and requires investment in advanced equipment that is available from a limited number of manufacturers. The market for equipment used in semiconductor foundries is characterized, from time to time, by significant demand, limited supply and long delivery cycles. Our business plan depends upon our ability to obtain our required equipment in a timely manner and at acceptable prices. During times of significant demand for the types of equipment we use, lead times for delivery can be as long as one year. Shortages of equipment could result in an increase in equipment prices and longer delivery times. If we are unable to obtain equipment in a timely manner and at a reasonable cost, we may be unable to achieve our expansion plans or meet our customers orders, which could negatively impact our competitiveness, financial condition, and results of operations.

We expect to have an ongoing need to obtain licenses for the proprietary technology of others, which subjects us to the payment of license fees and potential delays in the development and marketing of our products.

While we continue to develop and pursue patent protection for our own technologies, we expect to continue to rely on third party license arrangements to enable us to manufacture certain advanced wafers. As of December 31, 2010, we had been granted 1,596 patents worldwide, of which, 57 were in Taiwan, 140 were in the U.S., and 1,399 were in China, whereas we believe our competitors and other industry participants have been issued numerous more patents concerning wafer fabrication in multiple jurisdictions. Our limited patent portfolio may in the future adversely affect our ability to obtain licenses to the proprietary technology of others on favorable license terms due to our inability to offer cross-licensing arrangements. The fees associated with such licenses could adversely affect our financial condition and operating results. They might also render our services less competitive. If for any reason we are unable to license necessary technology on acceptable terms, it may become necessary for us to develop alternative technology internally, which could be costly and delay the marketing and delivery of key products and therefore have an adverse effect on our business and operating results. In addition, we may be unable to independently develop the technology required by our customers on a timely basis or at all, in which case our customers may purchase wafers from our competitors.

We may be subject to claims of intellectual property rights infringement owing to the nature of our industry, our limited patent portfolio and limitations of the indemnification provisions in our technology license agreements. These claims could adversely affect our business and operating results.

There is frequent intellectual property litigation, involving patents, copyrights, trade secrets, mask works and other intellectual property subject matters, in our industry. In some cases, a company can avoid or settle litigation on favorable terms because it possesses patents that can be asserted against the plaintiff. The limited size of our current patent portfolio is unlikely to place us in such a bargaining position. Moreover, some of our technology license agreements with our major technology partners do not provide for us to be indemnified in the event that the processes we license pursuant to such agreements infringe third party intellectual property rights. We could be sued for allegedly infringing one or more patents as to which we will be unable to obtain a license and unable to design around. As a result, we would be foreclosed from manufacturing or selling the products which are dependent upon such technology, which could have a material adverse

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effect on our business. We may litigate the issues of whether these patents are valid or infringed, but in the event of a loss we could be required to pay substantial monetary damages and be enjoined from further production or sale of such products.

If our relationships with our technology partners deteriorate or we are unable to enter into new technology alliances, we may not be able to continue providing our customers with leading edge process technology, which could adversely affect our competitive position and operating results.

Enhancing our process technologies is critical to our ability to provide high quality services for our customers. We intend to continue to advance our process technologies through internal research and development efforts and technology alliances with other companies. Although we have an internal research and development team focused on developing new process technologies, we depend upon our technology partners to advance our portfolio of process technologies. We currently have joint technology development arrangements and technology sharing arrangements with several companies and research institutes. If we are unable to continue our technology alliances with these entities, or maintain on mutually beneficial terms any of our other joint development arrangements, research and development alliances and other similar agreements, or are unable to enter into new technology alliances with other leading developers of semiconductor technology, we may not be able to continue providing our customers with leading edge process technology, which could adversely affect our competitive position and operating results.

Global or regional economic, political and social conditions could adversely affect our business and operating results.

External factors such as potential terrorist attacks, acts of war, financial crises, global economic crisis, natural disaster, or geopolitical and social turmoil in those parts of the world that serve as markets for our products could significantly adversely affect our business and operating results in ways that cannot presently be predicted. These uncertainties could make it difficult for our customers and us to accurately plan future business activities. More generally, these geopolitical, social and economic conditions could result in increased volatility in worldwide financial markets and economies that could adversely impact our sales. We are not insured for losses and interruptions caused by terrorist acts or acts of war. Therefore, any of these events or circumstances could adversely affect our business and operating results. In the event of a natural disaster such as the March 2011 earthquake in Japan, our suppliers operations could be disrupted although in this particular case our business and operating results were not materially adversely impacted.

The recurrence of an outbreak of the H1N1 strain of flu (Avian Flu), Severe Acute Respiratory Syndrome (SARS), or an outbreak of any other similar epidemic could, directly or indirectly, adversely affect our operating results.

Past outbreaks of the H1N1 virus, commonly known as swine flu, in North America and Europe caused governments to take measures to prevent spread of the virus. In addition, there have been reports of swine flu cases in Asia. The spread of epidemics could negatively affect the economy. For example, past occurrences of epidemics such as SARS have caused different degrees of damage to the national and local economies in China. If any of our employees are identified as a possible source of spreading the H1N1 virus, the Avian Flu or any other similar epidemic, we may be required to quarantine employees that are suspected of being infected, as well as others that have come into contact with those employees. We may also be required to disinfect our affected premises, which could cause a temporary suspension of our manufacturing capacity, thus adversely affecting our operations. A recurrence of an outbreak of the H1N1 virus or a recurrence of an outbreak of SARS, Avian Flu or other similar epidemic could restrict the level of economic activities generally and/or slow down or disrupt our business activities which could in turn adversely affect our results of operations.

Exchange rate fluctuations could increase our costs, which could adversely affect our operating results and the value of our ADSs.

Our financial statements are prepared in U.S. dollars. Our sales are generally denominated in U.S. dollars and our operating expenses and capital expenditures are generally denominated in U.S. dollars, Japanese Yen, Euros and Renminbi. Although we enter into foreign currency forward exchange contracts, we are still affected by fluctuations in exchange rates between the U.S. dollar and each of the Japanese Yen, the Euro and the Renminbi. Any significant fluctuations among these currencies may lead to an increase in our costs, which could adversely affect our operating results. See -Risks Related to Conducting Operations in China Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our business and operating results for a discussion of risks relating to the Renminbi.

Fluctuations in the exchange rate of the Hong Kong dollar against the U.S. dollar will affect the U.S. dollar value of the ADSs, since our ordinary shares are listed and traded on the Hong Kong Stock Exchange and the price of such shares are denominated in Hong Kong dollars. While the Hong Kong government has continued to pursue a pegged exchange rate policy, with the Hong Kong dollar trading in the range of HK\$7.7498 to HK\$7.8069 per US\$1.00 for 2010, we cannot assure you that such policy will be maintained. Exchange rate fluctuations also will affect the amount of U.S. dollars received upon the payment of any cash dividends or other distributions paid in Hong Kong dollars and the Hong Kong dollar proceeds received from any sales of ordinary shares. Therefore, such fluctuations could also adversely affect the value of our ADSs.

If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud and, because of the inherent limitation of internal control over financial reporting, material misstatements due to error or fraud may not be prevented or detected on a timely basis.

We are subject to reporting obligations under the United States securities laws. The SEC, as required by Section 404 of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, adopted rules requiring public companies to include a management report on such company s internal controls over financial reporting in its annual report, which contains management s assessment of the effectiveness of the company s internal controls over financial reporting. In addition, an independent registered public accounting firm must attest to the effectiveness of the company s internal controls over financial reporting. Our management has concluded that our internal controls over our financial reporting were not effectively maintained as of December 31, 2009. We have taken remedial steps to improve our internal controls and management concluded that our internal controls over financial reporting were effectively maintained as of December 31, 2010. However, we cannot assure you that in the future we or our independent registered public accounting firm will not identify material weaknesses during the Section 404 of the Sarbanes-Oxley Act audit process or for other reasons. In addition, because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. As a result, if we fail to maintain effective internal controls over financial reporting or should we be unable to prevent or detect material misstatements due to error or fraud on a timely basis, investors could lose confidence in the reliability of our financial statements, which in turn could harm our business and negatively impact the trading price of our securities. Furthermore, we have incurred and expect to continue to incur considerable costs and to use significant management time and other resources in an effort to comply with Section 404 and other requirements of the Sarbanes-Oxley Act.

We have twice settled pending litigation with TSMC at a substantial cost to us, and, if we materially breach our 2009 settlement agreement with TSMC (or certain related documents), we could be required to pay substantial liquidated damages in addition to the money damages or other remedies TSMC may be entitled to in connection with such material breach.

Taiwan Semiconductor Manufacturing Company, Limited (TSMC) has brought legal claims against us and our personnel on several occasions since 2002. On January 31, 2005, we entered into a settlement agreement with TSMC and agreed to pay them \$175 million in installments over a period of six years (the 2005 Settlement Agreement).

On August 25, 2006, TSMC filed a new lawsuit against us and certain of our subsidiaries in the Superior Court of the State of California for alleged breach of the 2005 Settlement Agreement between us and TSMC, alleged breach of promissory notes and alleged trade secret misappropriation by us. We filed counterclaims against TSMC in the same court in September 2006 and also filed suit against TSMC in Beijing in November 2006. We settled these 2006 lawsuits with TSMC (the Settled Actions) on November 9, 2009 with a settlement agreement (the 2009 Settlement Agreement) which replaced the 2005 Settlement Agreement.

Under the terms of the 2009 Settlement Agreement, our obligation to make the remaining payments of approximately US\$40 million under the 2005 Settlement Agreement was terminated, but we agreed to pay TSMC an aggregate of US\$200 million over a period of four years and committed, subject to certain terms and conditions, to issue TSMC 1,789,493,218 of our shares and one or more warrants exercisable within three years of issuance to subscribe for an aggregate of 695,914,030 of our shares, subject to adjustment, at a purchase price of HK\$1.30 per share, subject to adjustment. See Item 10 Additional Disclosure Other Contracts for a more detailed description of the share and warrant issuance agreement entered into by us and TSMC in connection with the 2009 Settlement Agreement and the warrant agreement to be entered into (subject to receipt of required government and regulatory approvals) between us and TSMC in connection with the 2009 Settlement Agreement. The 1,789,493,218 common shares and the warrant to purchase 695,914,030 common shares, subject to adjustment, were issued on July 5, 2010. In addition, the 2009 Settlement Agreement terminated that certain patent cross license agreement that was entered into in connection with the 2005 Settlement Agreement under which we had previously cross-licensed patent portfolios with TSMC (the 2005 Patent Cross-License).

Under the 2009 Settlement Agreement, both parties released the other from all claims arising out of or related to claims and counterclaims that were or could have been brought in the Settled Actions, but this release does not apply to claims of breach of the 2009 Settlement Agreement. In addition, each party covenanted not to sue the other for misappropriation or infringement of intellectual property rights, but this covenant not to sue did not extend to claims for breach of the 2009 Settlement Agreement or claims for patent or trademark infringement.

Further, the 2009 Settlement Agreement provides that if we materially breach the 2009 Settlement Agreement or certain related documents and fail to cure that breach within 30 days after notice from TSMC, that we will pay TSMC liquidated damages, in addition to any damages arising from such breach, in the amount of US\$44 million plus a royalty equal to 5% of our gross revenues derived from foundry services in respect of our 90nm and larger manufacturing processes during the period commencing on the date of the breach and ending on the date that is twenty years from the date of the 2009 Settlement Agreement.

There can be no assurance that TSMC will not sue us again in the future. For example, TSMC is not prohibited under the 2009 Settlement Agreement from bringing infringement claims against us which could not have been brought in the Settled Actions. Further, we are subject to several obligations under the 2009 Settlement Agreement, including obligations to protect

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the confidentiality of certain information, and TSMC could, in the future, allege a breach by us of the 2009 Settlement Agreement. If TSMC were successful in a claim of material breach by us of the 2009 Settlement Agreement (or certain related documents), we have agreed to pay substantial liquidated damages as described above.

TSMC is a competitor of ours and has substantially greater resources than we do to investigate and pursue legal actions. If TSMC successfully brings additional legal actions against us, we could be subject to significant penalties which could include monetary payments and/or injunctive relief such as requirements to discontinue sales of products.

The occurrence of any of these events could have a material adverse effect on our business and operating results and, in any event, the cost of litigation could be substantial.

Risks Related to Manufacturing

Our manufacturing processes are highly complex, costly and potentially vulnerable to impurities and other disruptions, which could significantly increase our costs and delay product shipments to our customers.

Our manufacturing processes are highly complex, require advanced and costly equipment, demand a high degree of precision and may have to be modified to improve yields and product performance. Dust and other impurities, difficulties in the fabrication process or defects with respect to the equipment or facilities used can lower yields, cause quality control problems, interrupt production or result in losses of products in process. As system complexity has increased and process technology has become more advanced, manufacturing tolerances have been reduced and requirements for precision have become even more demanding. As a result, we may experience production difficulties, which could significantly increase our costs and delay product shipments to our customers. We may have difficulty in ramping up production, which could cause delays in product deliveries and loss of

We may have difficulty in ramping up production, which could cause delays in product deliveries and loss of customers and adversely affect our business and operating results.

As is common in the semiconductor industry, we may experience difficulty in ramping up production at new or existing facilities, such as our Beijing mega-fab in which we expect to add a significant amount of new equipment. This could be due to a variety of factors, including hiring and training of new personnel, implementing new fabrication processes, recalibrating and re-qualifying existing processes and the inability to achieve required yield levels.

In the future, we may face construction delays or interruptions, infrastructure failure, or delays in upgrading or expanding existing facilities or changing our process technologies, which may adversely affect our ability to ramp up production in accordance with our plans. Our failure to ramp up our production on a timely basis could cause delays in product deliveries, which may result in the loss of customers and sales. It could also prevent us from recouping our investments in a timely manner or at all, and adversely affect our business and operating results.

We have formed joint ventures that, if not successful, may adversely impact our business and operating results.

In July 2004, we announced an agreement with Toppan Printing Co., Ltd., to establish Toppan SMIC Electronics (Shanghai) Co., Ltd., a joint venture in Shanghai, to manufacture color filters and micro-lenses for CMOS image sensors. In May 2005, we announced an agreement with United Test and Assembly Center Ltd. to establish a joint venture in Chengdu to provide assembly and testing services for memory and logic devices. On March 1, 2011, the Company deconsolidated AT as its majority ownership interest was reduced to 10%. As a result, all previously preferred securities issued were cancelled. The Company retained a 10% interest in AT and will account for such investment under the cost method in future periods as it no longer has controlling financial interest nor significant influence in AT. No cash or other consideration was received by the Company in conjunction with disposition.

The results of the joint ventures are reflected in our operating results to the extent of our ownership interest, and losses of the joint ventures could adversely impact our operating results. For example, as a result of our ownership of Toppan SMIC Electronics (Shanghai) Co., Ltd., we recorded a gain of US\$0.3 million in 2010. Integration of assets and operations being contributed by each partner will involve complex activities that must be completed in a short period of time. The joint ventures are likely to continue to face numerous challenges in commencing their operations and operating successfully. The business of the joint ventures will be subject to operational risks that would normally arise for these types of businesses pertaining to manufacturing, sales, service, marketing, and corporate functions. Competition in the CMOS image sensor market and semiconductor assembly and testing industry will involve challenges from well-established companies with substantial resources and significant market share.

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If the joint ventures are not successful or less successful than we anticipate, we may incur higher costs for performing assembly and testing services through our current partners or for manufacturing color filters and micro-lenses, which typically require mature technologies and thus command a lower wafer price and generate lower margins, at our existing fabs. Either result may adversely affect our business and operating results.

If we are unable to obtain raw materials and spare parts in a timely manner, our production schedules could be delayed and our costs could increase.

We depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes. To maintain operations, we must obtain from our suppliers sufficient quantities of quality raw materials and spare equipment parts at acceptable prices and in a timely manner. The most important raw material used in our production is silicon in the form of raw wafers. We currently purchase approximately 74% of our overall raw wafer requirements from our top three raw wafer suppliers. In addition, a portion of our gas and chemical requirements currently must be sourced from outside China. We may not be able to obtain adequate supplies of raw materials and spare parts in a timely manner and at a reasonable cost. In addition, from time to time, we may need to reject raw materials and parts that do not meet our specifications, resulting in potential delays or declines in output. If the supply of raw materials and necessary spare parts is substantially reduced or if there are significant increases in their prices, we may incur additional costs to acquire sufficient quantities of these parts and materials to maintain our production schedules and commitments to customers.

Our production may be interrupted, limited or delayed if we cannot maintain sufficient sources of fresh water and electricity, which could adversely affect our business and operating results.

The semiconductor fabrication process requires extensive amounts of fresh water and a stable source of electricity. As our production capabilities increase and our business grows, our requirements for these resources will grow substantially. While we have not, to date, experienced any instances of the lack of sufficient supplies of water or material disruptions in the electricity supply to any of our fabs, we may not have access to sufficient supplies of water and electricity to accommodate our planned growth. Droughts, pipeline interruptions, power interruptions, electricity shortages or government intervention, particularly in the form of rationing, are factors that could restrict our access to these utilities in the areas in which our fabs are located. In particular, our fab in Tianjin and our Beijing mega-fab are located in areas that are susceptible to severe water shortages during the summer months. If there is an insufficient supply of fresh water or electricity to satisfy our requirements, we may need to limit or delay our production, which could adversely affect our business and operating results. In addition, a power outage, even of very limited duration, could result in a loss of wafers in production and a deterioration in yield.

Our operations may be delayed or interrupted due to natural disasters which could adversely affect our business and operating results.

We depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes in addition to requiring extensive amounts of fresh water and a stable source of electricity. The occurrence of natural disasters such as earthquakes may disrupt this required access to goods and services provided by our suppliers as well as access to fresh water and electricity. As a result, our production could be limited or delayed due to the disruption of access to required supplies, in addition to possible damage caused to our manufacturing

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equipment and related infrastructure, which could adversely affect our business and operating results. Our business and operating results were not materially impacted by Japan s earthquake in March 2011.

We are subject to the risk of damage due to fires or explosions because the materials we use in our manufacturing processes are highly flammable. Such damage could temporarily reduce our manufacturing capacity, thereby adversely affecting our business and operating results.

We use highly flammable materials such as silane and hydrogen in our manufacturing processes and are therefore subject to the risk of loss arising from explosions and fires. While we have not, to date, experienced any explosion or fire due to the nature of our raw materials, the risk of explosion and fire associated with these materials cannot be completely eliminated. Although we maintain comprehensive fire insurance and insurance for the loss of property and the loss of profit resulting from business interruption, our insurance coverage may not be sufficient to cover all of our potential losses due to an explosion or fire. If any of our fabs were to be damaged or cease operations as a result of an explosion or fire, it could temporarily reduce our manufacturing capacity, which could adversely affect our business and operating results.

Our Beijing mega-fab is located in an area that is susceptible to seasonal dust storms, which could create impurities in the production process at these facilities and require us to take additional measures or spend additional capital to further insulate these fabs from dust, thereby adversely affecting our business and operating results.

The location of our Beijing mega-fab makes it susceptible to seasonal dust storms, which could cause dust particles to enter the buildings and affect the production process. Although we are constructing precautionary filtration systems, these may not adequately insulate the Beijing mega-fab against dust contamination. If dust were to affect production in the Beijing mega-fab, we could experience quality control problems, losses of products in process and delays in shipping products to our customers. In addition, we may have to spend additional capital to further insulate the Beijing mega-fab from dust if our current precautionary measures are insufficient. The occurrence of any of these events could adversely affect our business and operating results.

Our operations may be delayed or interrupted and our business could suffer as a result of steps we may be required to take in order to comply with environmental regulations.

We are subject to a variety of Chinese environmental regulations relating to the use, discharge and disposal of toxic or otherwise hazardous materials used in our production processes. Any failure or any claim that we have failed to comply with these regulations could cause delays in our production and capacity expansion and affect our company s public image, either of which could harm our business. In addition, any failure to comply with these regulations could subject us to substantial fines or other liabilities or require us to suspend or adversely modify our operations.

Risks Related to Conducting Operations in China

Our business is subject to extensive government regulation and benefits from certain government incentives, and changes in these regulations or incentives could adversely affect our business and operating results.

The Chinese government has broad discretion and authority to regulate the technology industry in China. China s government has also implemented policies from time to time to regulate economic expansion in China. The economy of China has been transitioning from a planned economy to a market-oriented economy. Although in recent years the Chinese government has implemented measures emphasizing the utilization of market forces for economic reform, the reduction of state ownership of productive assets, and the establishment of sound corporate governance in business enterprises, a substantial portion of productive assets in China is still owned by the Chinese government. In addition, the Chinese government continues to play a significant role in regulating industrial development. It also exercises significant control over China s economic growth through the allocation of resources, controlling payment of foreign currency-denominated obligations, setting monetary policy, and providing preferential treatment to particular industries or companies. New regulations or the readjustment of previously implemented regulations could require us to change our business plan, increase our costs or limit our ability to sell products and conduct activities in China, which could adversely affect our business and operating results.

In addition, the Chinese government and provincial and local governments have provided, and continue to provide, various incentives to domestic companies in the semiconductor industry, including our company, in order to encourage the development of the industry. Such incentives include tax rebates, reduced tax rates, favorable lending policies, and other measures. Any of these incentives could be reduced or eliminated by governmental authorities at any time. For example, in the past, the Chinese government announced that by April 1, 2005, the preferential value-added tax policies, which previously entitled certain qualified companies to receive a refund of the amount exceeding 3% of the actual value-added tax burden relating to self-made integrated circuit product sales, would be eliminated. While we have not previously benefited materially from such preferential value-added tax policies, any reduction or elimination of other incentives currently provided to us could adversely affect our business and operating results.

Because our business model depends on growth in the electronics manufacturing supply chain in China, any slowdown in this growth could adversely affect our business and operating results.

Our business is dependent upon the economy and the business environment in China. In particular, our growth strategy is based upon the assumption that demand in China for devices that use semiconductors will continue to grow. Therefore, any slowdown in the growth of consumer demand in China for products that use semiconductors, such as computers, mobile phones or other consumer electronics, could have a serious adverse effect on our business. In addition, our business plan assumes that an increasing number of non-domestic IDMs, fabless semiconductor companies and systems companies will establish operations in China. Any decline in the rate of migration to China of semiconductor design companies or companies that require semiconductors as components for their products could adversely affect our business and operating results.

Limits placed on exports into China could substantially harm our business and operating results.

The growth of our business will depend on the ability of our suppliers to export, and our ability to import, equipment, materials, spare parts, process know-how and other technologies and hardware into China. Any restrictions placed on the import and export of these products and technologies could adversely impact our growth and substantially harm our

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business. In particular, the United States requires our suppliers and us to obtain licenses to export certain products, equipment, materials, spare parts and technologies from that country. If we or our suppliers are unable to obtain export licenses in a timely manner, our business and operating results could be adversely affected.

In July 1996, thirty-three countries ratified the Wassenaar Arrangement on Export Controls for Conventional Arms and Dual-Use Goods and Technologies, which established a worldwide arrangement to restrict the transfer of conventional arms and dual-use goods and technologies. Under the terms of the Wassenaar Arrangement, the participating countries, including the United States, have restricted exports to China of technology, equipment, materials and spare parts that potentially may be used for military purposes in addition to their commercial applications. To the extent that technology, equipment, materials or spare parts used in our manufacturing processes are or become subject to the restrictions of the arrangement, our ability to procure these products and technology could be impaired, which could adversely affect our business and operating results. There could also be a change in the export license regulatory regime in the countries from which we purchase our equipment, materials and spare parts that could delay our ability to obtain export licenses for the equipment, materials, spare parts and technology we require to conduct our business.

Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our business and operating results.

The value of the Renminbi is subject to changes in China's governmental policies and to international economic and political developments. Since 1994, the conversion of Renminbi into foreign currencies, including Hong Kong and U.S. dollars, has been based on rates set by the People's Bank of China (PBOC), which are set daily based on the previous day sinterbank foreign exchange market rates and current exchange rates on the world financial markets. The Renminbi to U.S. dollar exchange rate experienced significant volatility prior to 1994, including periods of sharp devaluation. On July 21, 2005, the PBOC announced an adjustment of the exchange rate of the U.S. dollar to Renminbi from 1:8.27 to 1:8.11 and modified the system by which the exchange rates are determined. The central parity rate of the U.S. Dollar to Renminbi was set at 6.6227 on December 31, 2010 versus 6.8282 on December 31, 2009 by PBOC. The cumulative appreciation of the Renminbi against the U.S. dollar in 2010 was approximately 3.0%. There remains significant international pressure on the PRC government to adopt an even more flexible currency policy, which could result in a further and more significant appreciation of the Renminbi against the U.S. dollar. As a result, the exchange rate may become volatile and the Renminbi may be devalued again against the U.S. dollar or other currencies, or the Renminbi may be permitted to enter into a full or limited free float, which may result in an appreciation in the value of the Renminbi against the U.S. dollar, any of which could have an adverse affect on our business and operating results.

In the past, financial markets in many Asian countries have experienced severe volatility and, as a result, some Asian currencies have experienced significant devaluation from time to time. The devaluation of some Asian currencies may have the effect of rendering exports from China more expensive and less competitive and therefore place pressure on China s government to devalue the Renminbi. An appreciation in the value of the Renminbi could have a similar effect. Any devaluation of the Renminbi could result in an increase in volatility of Asian currency and capital markets. Future volatility of Asian financial markets could have an adverse impact on our ability to expand our product sales into Asian markets outside of China.

We receive a portion of our sales in Renminbi, which is currently not a freely convertible currency. For the year ended December 31, 2010, approximately 10.2% of our sales were denominated in Renminbi. While we have used these proceeds for the payment of our Renminbi expenses, we may in the future need to convert these sales into foreign currencies to allow us to purchase imported materials and equipment, particularly as we expect the proportion of our sales to China-based companies to

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increase in the future. Under China s existing foreign exchange regulations, payments of current account items, including profit distributions, interest payments and expenditures from trade may be made in foreign currencies without government approval, except for certain procedural requirements. The Chinese government may, however, at its discretion, restrict access in the future to foreign currencies for current account transactions and prohibit us from converting our Renminbi sales into foreign currencies. If this were to occur, we may not be able to meet our foreign currency payment obligations.

China s entry into the World Trade Organization has resulted in lower Chinese tariff levels, which benefit our competitors from outside China and could adversely affect our business and operating results.

As a result of joining the World Trade Organization, or WTO, China has reduced its average rate of import tariffs to 9.8% in 2003 and may further decrease. The import tariff for some information technology-related products has been reduced to zero. As a consequence, we expect stronger competition in China from our foreign competitors, particularly in terms of product pricing, which could adversely affect our business and operating results.

China s legal system embodies uncertainties that could adversely affect our business and operating results.

Since 1979, many new laws and regulations covering general economic matters have been promulgated in China. Despite this activity to develop the legal system, China s system of laws is not yet complete. Even where adequate law exists in China, enforcement of existing laws or contracts based on existing law may be uncertain and sporadic, and it may be difficult to obtain swift and equitable enforcement or to obtain enforcement of a judgment by a court of another jurisdiction. The relative inexperience of China s judiciary in many cases creates additional uncertainty as to the outcome of any litigation. In addition, interpretation of statutes and regulations may be subject to government policies reflecting domestic political changes.

Our activities in China will be subject to administrative review and approval by various national and local agencies of China's government. See Item 4-Information on the Company-Regulation. Because of the changes occurring in China's legal and regulatory structure, we may not be able to secure the requisite governmental approval for our activities. Failure to obtain the requisite governmental approval for any of our activities could adversely affect our business and operating results.

Our corporate structure may restrict our ability to receive dividends from, and transfer funds to, our Chinese operating subsidiaries, which could restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

We are a Cayman Islands holding company and substantially all of our operations are conducted through our Chinese operating subsidiaries, Semiconductor Manufacturing International (Shanghai) Corporation, or SMIC Shanghai, Semiconductor Manufacturing International (Beijing) Corporation, or SMIC Beijing, and Semiconductor Manufacturing International (Tianjin) Corporation. The ability of these subsidiaries to distribute dividends and other payments to us may be restricted by factors that include changes in applicable foreign exchange and other laws and regulations. In particular, under Chinese law, these operating subsidiaries may only pay dividends after 10% of their net profit has been set aside as reserve funds, unless such reserves have reached at least 50% of their respective registered capital. In addition, the profit available for distribution from our Chinese operating subsidiaries is determined in accordance with generally accepted accounting principles in China. This calculation may differ from the one performed in accordance with U.S. GAAP. As a result, we may not have sufficient distributions from our Chinese subsidiaries to enable necessary profit distributions to us

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or any distributions to our shareholders in the future, which calculation would be based upon our financial statements prepared under U.S. GAAP.

Distributions by our Chinese subsidiaries to us may be subject to governmental approval and taxation. Any transfer of funds from our company to our Chinese subsidiaries, either as a shareholder loan or as an increase in registered capital, is subject to registration or approval of Chinese governmental authorities, including the relevant administration of foreign exchange and/or the relevant examining and approval authority. In addition, it is not permitted under Chinese law for our Chinese subsidiaries to directly lend money to each other. Therefore, it is difficult to change our capital expenditure plans once the relevant funds have been remitted from our company to our Chinese subsidiaries. These limitations on the free flow of funds between us and our Chinese subsidiaries could restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

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Risks Related to Ownership of Our Shares and ADSs and Our Trading Markets

Future sales of securities by us or our shareholders may decrease the value of your investment.

Future sales by us or our existing shareholders of substantial amounts of our ordinary shares or ADSs in the public markets could adversely affect market prices prevailing from time to time.

We cannot predict the effect, if any, of any such future sales or of the perception that any such future sales will occur, on the market price for our ordinary shares or ADSs.

Holders of our ADSs will not have the same voting rights as the holders of our shares and may not receive voting materials in time to be able to exercise their right to vote.

Holders of our ADSs may not be able to exercise voting rights attaching to the shares evidenced by our ADSs on an individual basis. Holders of our ADSs have appointed the depositary or its nominee as their representative to exercise the voting rights attaching to the shares represented by the ADSs. You may not receive voting materials in time to instruct the depositary to vote, and it is possible that you, or persons who hold their ADSs through brokers, dealers or other third parties, will not have the opportunity to exercise a right to vote.

You may not be able to participate in rights offerings and may experience dilution of your holdings as a result.

We may from time to time distribute rights to our shareholders, including rights to acquire our securities. Under the deposit agreement for the ADSs, the depositary will not offer those rights to ADS holders unless both the rights and the underlying securities to be distributed to ADS holders are either registered under the Securities Act or exempt from registration under the Securities Act with respect to all holders of ADSs. We are under no obligation to file a registration statement with respect to any such rights or underlying securities or to endeavor to cause such a registration statement to be declared effective. In addition, we may not be able to take advantage of any exemptions from registration under the Securities Act. Accordingly, holders of our ADSs may be unable to participate in our rights offerings and may experience dilution in their holdings as a result.

The laws of the Cayman Islands and China may not provide our shareholders with benefits provided to shareholders of corporations incorporated in the United States.

Our corporate affairs are governed by our memorandum and articles of association, by the Companies Law (Revised) and the common law of the Cayman Islands. The rights of shareholders to take action against our directors, actions by minority shareholders and the fiduciary responsibilities of our directors to us under Cayman Islands law are to a large extent governed by the common law of the Cayman Islands. The common law in the Cayman Islands is derived in part from comparatively limited judicial precedent in the Cayman Islands and from English common law, the decisions of whose courts are of persuasive authority but are not binding on a court in the Cayman Islands. The rights of our shareholders and the fiduciary responsibilities of our directors under Cayman Islands law are not as clearly established as they would be under statutes or judicial precedents in the United States. In particular, the Cayman Islands have a less developed body of securities laws as compared to the United States. Therefore, our public shareholders may have more difficulty protecting their interests in the face of actions by our management, directors or controlling shareholders than would shareholders of a corporation incorporated in a jurisdiction in the United States. In addition, Cayman Islands companies may not have standing to initiate a shareholder derivative action before the federal courts of the United States.

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It may be difficult for you to enforce any judgment obtained in the United States against our company, which may limit the remedies otherwise available to our shareholders.

Substantially all of our assets are located outside the United States. Almost all of our current operations are conducted in China. Moreover, a number of our directors and officers are nationals or residents of countries other than the United States. All or a substantial portion of the assets of these persons are located outside the United States. As a result, it may be difficult for you to effect service of process within the United States upon these persons. In addition, there is uncertainty as to whether the courts of the Cayman Islands or China would recognize or enforce judgments of United States courts obtained against us or such persons predicated upon the civil liability provisions of the securities law of the United States or any state thereof, or be competent to hear original actions brought in the Cayman Islands or China, respectively, against us or such persons predicated upon the securities laws of the United States or any state thereof. See Item 4 Information on the Company Business Overview Enforceability of Civil Liabilities.

Item 4. Information on the Company History and Development of the Company

We were established as an exempted company under the laws of the Cayman Islands on April 3, 2000. Our legal name is Semiconductor Manufacturing International Corporation. Our principal place of business is 18 Zhangjiang Road, Pudong New Area, Shanghai, China 201203, telephone number: (86) 21-3861-0000. Our registered office is located at PO Box 309, Ugland House, Grand Cayman, KY1-1104, Cayman Islands. Since our global offering, we have been listed on the New York Stock Exchange under the symbol SMI and the Stock Exchange of Hong Kong under the stock code 0981.HK

In August 2000, we started construction of the first fabrication facility (fab) in our Shanghai mega-fab which commenced pilot production in September 2001 and commenced commercial production in January 2002. The second fab in our Shanghai mega-fab was completed in two stages, commencing commercial production in January 2002 (for aluminum interconnects) and January 2003 (for copper interconnects). The third fab in our Shanghai mega-fab also commenced commercial production in January 2003. All of the fabs comprising the Shanghai mega-fab are located in the Zhangjiang High-Tech Park. In January 2004, we completed the acquisition of an 8-inch wafer fab located in the Xiqing Economic Development Area in Tianjin, China, which commenced mass production in May 2004. We started construction of our Beijing mega-fab in the Beijing Economic and Technological Development Area in December 2002. The Beijing mega-fab consists of two 12-inch fabs and commenced commercial production in March 2005. The Beijing mega-fab is mainland China s first 12-inch fab. In January 2008, the Company announced its plan to start a new IC production project in Shenzhen with support from the Shenzhen municipal government. The project broke ground in the first half of 2008.

We entered into an agreement with Toppan Printing Co., Ltd., to establish Toppan SMIC Electronics (Shanghai) Co., Ltd., which manufactures color filters and micro-lenses for CMOS image sensors and a joint venture agreement with United Test and Assembly Center Ltd. to provide assembly and testing services in Chengdu, China focusing on memory and logic devices (which joint venture, we have substantially existed in 2011). We also entered into agreements to manage the operations of wafer manufacturing facilities (fabs) in Chengdu and Wuhan, China. The Chengdu fab agreement was subsequently terminated in 2010. We maintain customer service and marketing offices in Japan, Europe, and the United States, as well as representative office in Hong Kong.

The foundry industry requires a significant amount of capital expenditures in order to construct, equip, and ramp up fabs. We incurred capital expenditures of US\$666 million, US\$190 million, and US\$728 million in 2008, 2009 and 2010, respectively, for these purposes. We anticipate that in 2011, we will incur approximately US\$1 billion in capital expenditures, subject to adjustment based on market conditions, principally to expand our operations at our mega-fab in Beijing. If our operating cash flows are insufficient, we plan to fund the expected shortfall through bank loans. If necessary, we will also explore other forms of external financing.

Our fabs had an aggregate capacity, as of December 31, 2010, of 171,725 8-inch wafer equivalents per month for wafer fabrication. We anticipate an increase in aggregate capacity by the end of 2011.

For additional information, see Item 5 Operating and Financial Review and Prospects - Factors that Impact Our Results of Operations Substantial Capital Expenditures and Capacity Expansion.

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Business Overview

We are one of the leading semiconductor foundries in the world. We operate three 8-inch wafer fabrication facilities in our Shanghai mega-fab located in the Zhangjiang High-Tech Park in Shanghai, China, an 8-inch wafer fab in Tianjin, China and a 12-inch wafer fab in our Beijing mega-fab located in the Beijing Economic and Technological Development Area in Beijing, China. These fabs had an aggregate capacity as of December 31, 2010 of 171,725 8-inch wafer equivalents per month for wafer fabrication which positions us as the leading foundry in China. In addition, we have a 12-inch fab in Shanghai currently engaged primarily in research and development activities, and a 8-inch fab under construction in Shenzhen. We have also entered into agreements to manage the operations of wafer manufacturing facilities in Wuhan, China.

We currently provide semiconductor fabrication services using 0.35 micron down to 40 nanometer process technology for the following devices:

logic technologies, including standard logic, mixed-signal, RF and high voltage circuits;

memory technologies, including SRAM, Flash, and EEPROM; and

specialty technologies, including LCOS, and CIS.

In 2010, the Company recorded an impairment loss of \$8,442,050 associated with the disposal of fixed assets with outdated technologies.

In 2009, the effect of adverse market conditions and significant changes in the Company s operation strategy lead to the Company s identification and commitment to abandon a group of long-lived assets. This group of long-lived assets was equipped with outdated technologies and no longer received vendor support. As of December 31, 2009, this group of assets ceased to be used. As a result, the Company recorded an impairment loss of \$104,676,535 after writing down the carrying value of these assets to zero.

In the first quarter of 2008, the Company reached an agreement with our customers to completely exit the commodity DRAM business. The conversion of DRAM capacity into logic production was completed on schedule in the fourth quarter of 2008. As a result, our Beijing 300mm logic capacity has placed us in a better position to serve our global and China customers. In connection with the decision to exit the commodity DRAM business, we recorded an impairment loss of \$105,774,000 on long-lived assets during the first quarter of 2008.

In addition to wafer fabrication, our service offerings include a comprehensive portfolio of intellectual property consisting of libraries and circuit design blocks, design support, mask-making, wafer probing, gold/solder bumping and redistribution layer manufacturing. We also work with our partners to provide assembly and testing services.

We have a global and diversified customer base that includes some of the world s leading IDMs and fabless semiconductor companies.

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Our Industry

The Semiconductor Industry

Since the invention of the first semiconductor transistor in 1947, integrated circuits have become critical components in an increasingly broad range of electronics applications, including personal computers, wired and wireless communications equipment, televisions, consumer electronics and automotive and industrial control applications. Advancements in semiconductor design techniques and process technologies have allowed for the mass production of increasingly smaller and more powerful semiconductor devices at lower costs. This has resulted in the availability and proliferation of more complex integrated circuits with higher functionality. These integrated circuits may now each contain up to millions of transistors.

The key raw material for a semiconductor foundry is a raw wafer, which is a circular silicon plate. Raw wafers are available in different diameters (e.g., 5-inch, 6-inch, 8-inch or 12-inch) to meet the capabilities of different equipment. A fab capable of manufacturing integrated circuits on an 8-inch raw wafer is commonly described as an 8-inch fab. A raw wafer with a larger diameter has a greater surface area and consequently yields a greater number of integrated circuit dies.

Process technologies are the set of specifications and parameters implemented for manufacturing the circuitry on integrated circuits. The transistor circuitry on an integrated circuit typically follows lines that are less than one micron wide (1/1,000,000 of a meter). The line-widths of the circuitry, or the minimum physical dimensions of the transistor gate of integrated circuits in production, is used as a general rule for classifying generations of process technology of integrated circuits. Progress in the advancement of the integrated circuit has been driven by the scaling, or downsizing, of its components, primarily the transistors. By systematically shrinking the size of the transistors, the number of allowable transistors per die increases, and thus the number of dies on a given wafer, has also increased. Our current process technology ranges from 0.35 micron to 40-nanometer.

Importance of Integrated Circuits for China's Domestic Market and China's Emergence as a Global Electronics Manufacturing Center

China has emerged as a global manufacturing center for electronic products that are sold both within China and abroad. In recent years, numerous international companies have established facilities in China for the manufacture of a variety of electronic products, including household appliances, computers, mobile phones, telecommunications equipment, digital consumer products and products with industrial applications. An increasing number of electronic systems manufacturers are relocating production facilities from the United States, Taiwan, and Southeast Asia to China. China is establishing itself as a favorable manufacturing location due to its well educated labor force, significantly lower costs of operations, large domestic market for semiconductors and cultural similarities and geographical proximity to Japan, Hong Kong, Taiwan, Singapore and Korea, among other factors. Such production growth represents additional potential demand for semiconductors manufactured in China.

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Increasing Importance of the Semiconductor Foundry Industry

As the cost of establishing new fabrication capacity has continued to rise, foundries have progressed from simply providing manufacturing capacity to becoming key strategic partners offering research and development capabilities and manufacturing process technologies. There have historically been a limited number of semiconductor foundries in the industry due to the high barriers to entry, which include significant capital commitments, scarcity of qualified engineers and advanced intellectual property and technology requirements. Many IDMs have begun outsourcing their fabrication requirements for complex and high performance semiconductor devices to foundries in order to supplement their own internal capacities and become more cost competitive. In addition, fabless semiconductor companies have shifted from relying on the excess fabrication capacity of IDMs to utilizing independent foundries to meet the majority of their wafer production needs.

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Our Fabs

The table below sets forth a summary of our current fabs:

	Shanghai Mega-Fab	Beijing Mega-Fab	Tianjin
Number and Type of fab	(3) 8-inch fabs	(2) 12-inch fabs	(1) 8-inch fab
	(1) 12-inch fab in R&D		
	phase		
Pilot production commencement	September 2001	July 2004	February 2004
Commercial production commencement	January 2002	March 2005	May 2004
Wafer size	8-inch	12-inch	8-inch
	12-inch (being equipped)		
Production clean room size	$34,610 \text{ m}^2$	$23,876 \text{ m}^2$	$8,463 \text{ m}^2$

In addition to our Shanghai mega-fab, we have an additional fab at our Shanghai site. A portion of one facility in Shanghai is being leased to Toppan SMIC Electronics (Shanghai) Co., Ltd., which manufactures color filters and micro-lenses for CMOS image sensors. Most of the administrative and management functions of our fabs in different locations are centralized at our corporate headquarters in the Zhangjiang High-Tech Park in the Pudong New Area of Shanghai.

Additionally, we have one 8-inch fab under construction in Shenzhen. The expansion plan for this project will be adjusted based on overall market conditions.

Management of Fabs

We also have undertaken agreements relating to wafer manufacturing facilities in Wuhan, China. Under these agreements, we do not own any equity interest but will manage the operations of the facilities.

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Our Services

Wafer Fabrication Services

We currently provide semiconductor fabrication services using 0.35 micron down to 45 nanometer technology for the following devices:

logic technologies, including standard logic, mixed-signal, RF and high voltage circuits;

memory technologies, including SRAM, Flash, EEPROM and Mask ROM; and

specialty technologies, including LCoS, and CIS.

These semiconductors are used in various computing, communications, consumer and industrial applications, such as computers, mobile telephones, digital televisions, digital cameras, DVD players, entertainment devices, other consumer electronics devices and automotive and industrial applications.

Our Technologies

We manufacture the following types of semiconductors:

Logic Semiconductors. Logic semiconductors process digital data to control the operation of electronic systems. The largest segment of the logic market, standard logic devices, includes microprocessors, microcontrollers, DSPs and graphic chips. Logic semiconductors are used in communications devices, computers and consumer products, with the most advanced logic semiconductors dedicated primarily to computing applications.

Mixed-Signal and RF. Analog/digital semiconductors combine analog and digital devices on a single semiconductor to process both analog signals and digital data. We make 0.35 micron to 55 nanometer mixed-signal and RF semiconductors using the CMOS process. The primary uses of mixed-signal semiconductors are in hard disk drives, wireless communications equipment and network communications equipment, while RF semiconductors are primarily used in communications devices, such as cell phones.

High Voltage. High voltage semiconductors are semiconductor devices that can drive high voltage electricity to systems that require voltage of between five volts to several hundred volts. Our high voltage technologies provide solutions for display driver integrated circuits, power supplies, power management, telecommunications, automotive electronics and industrial controls.

Memory Semiconductors. Memory semiconductors, which are used in electronic systems to store data and program instructions, are generally classified as either volatile memory, which lose their data content when power supplies are switched off, or non-volatile memory, which retain their data content without the need for a constant power supply. Examples of volatile memory include SRAM and examples of non-volatile memory include electrically erasable programmable read-only memory, or EEPROM, NAND Flash and OTP. Memory semiconductors are used in communications devices, computers and many consumer products.

Specialty Semiconductors.

LCoS. LCoS microdisplays are tiny, high resolution, low power displays designed for high definition televisions, projectors and other products that use or rely on displays. Compared with other display technologies, such as liquid crystal and plasma, LCoS displays have higher resolution and higher fill factor, resulting in superior images, colors and performance. LCoS process technology represents an enhancement of mixed-signal CMOS process technology with the addition of a highly reflective mirror layer.

CIS. CIS devices are sensors that are used in a wide range of camera-related systems, such as digital cameras, digital video cameras, handset cameras, personal computer cameras and surveillance cameras, which integrate image-capturing

capabilities onto a chip. CIS is rapidly becoming a cost-effective and low power replacement for competing charged-coupled devices, or CCDs. Since CIS devices are fabricated with CMOS technology, they are easier to produce and more cost-effective than CCDs. By combining camera functions on a chip, from the capture of photos to the output of digital bits, CMOS image sensors reduce the parts required for a digital camera system, which in turn enhances reliability, facilitates miniaturization, and enables on-chip programming. Our CIS process is based on our CIS array technology.

We are one of the leading foundries in the world in terms of the process technologies that we are capable of using in the manufacturing of semiconductors.

	Month and year of commenceme of commercia production	1		ocess technology (in microns)	
Fab Wafer fabrication	initial fab	2007	2008	2009	2010
Shanghai	January				
Mega-fab (8)	2002	0.35/0.25/ 0.18/0.15/ 0.13/0.11/0.09	0.35/0.25/ 0.18/0.15/ 0.13/0.11/0.09	0.35/0.25/ 0.18/0.15/ 0.13/0.11	0.35/0.25/ 0.18/0.15/ 0.13/0.11
Shanghai fab (12	.)		0.09	0.11/0.09	0.11/0.09/0.045
Beijing Mega-fal (12)	March 2005	0.13/0.11/ 0.10/0.09	0.18/0.13/ 0.09	0.18/0.13/0.09/0.065	0.18/0.13/0.09/0.065
Tianjin fab (8)	May 2004	0.35/0.25/ 0.18/0.15	0.35/0.25/ 0.18/0.15	0.35/0.25 0.18/0.15	0.35/0.25 0.18/0.15

The following table sets forth a percentage breakdown of wafer sales by process technology for the years ended December 31, 2008, 2009, and 2010 and each of the quarters in the year ended December 31, 2010:

For 1	the	F	or the three	months ende	d	year ended
year ended December 31.				September	December 31.	December 31,
2008	2009	2010	2010	2010	2010	2010
		(based	on sales in	US\$)		
0.01%	0.98%	1.70%	3.72%	7.08%	8.58%	5.43%
17.60%	15.13%	18.66%	19.87%	16.19%	15.38%	17.44%
26.29%	34.96%	35.52%	32.16%	32.95%	31.95%	33.08%
2.70%	2.12%	1.50%	1.78%	2.34%	1.22%	1.71%
	year ended 3 31 2008 0.01% 17.60% 26.29%	31, 2008 2009 0.01% 0.98% 17.60% 15.13% 26.29% 34.96%	year ended December 31, March 31, 2008 2009 2010 (based) 0.01% 0.98% 1.70% 17.60% 15.13% 18.66% 26.29% 34.96% 35.52%	year ended December 31, March 31, June 30, 2008 2009 2010 2010 (based on sales in 0.01% 0.98% 1.70% 3.72% 17.60% 15.13% 18.66% 19.87% 26.29% 34.96% 35.52% 32.16%	year ended December March 31, June 30, 30, 2008 2009 2010 2010 2010 (based on sales in US\$) 0.01% 0.98% 1.70% 3.72% 7.08% 17.60% 15.13% 18.66% 19.87% 16.19% 26.29% 34.96% 35.52% 32.16% 32.95%	year ended December March 31, June 30, 30, 31, 2008 2009 2010 2010 2010 2010 (based on sales in US\$) 0.01% 0.98% 1.70% 3.72% 7.08% 8.58% 17.60% 15.13% 18.66% 19.87% 16.19% 15.38% 26.29% 34.96% 35.52% 32.16% 32.95% 31.95%

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0.18 micron	34.10%	27.27%	24.16%	26.81%	25.60%	26.52%	25.81%
0.25 micron	0.60%	0.44%	0.26%	0.56%	0.51%	0.53%	0.47%
0.35 micron	18.70%	19.10%	18.20%	15.10%	15.33%	15.82%	16.06%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Manufacturing Capacity

We currently manufacture 8-inch silicon wafers based on proprietary designs provided by our customers or third party designers. Since commencing commercial production, we have the largest 8-inch wafer fabrication capacity among the semiconductor foundries in China. We have the most advanced process technology among foundries in China. In January 2003, we commenced commercial production using 0.13 micron copper interconnects process technology. We are currently one of the few fabs in China to offer 0.13 micron copper interconnects process technology and both 90 nanometer and 65 nanometer wafer fabrication process technology.

Fab Wafer Fabrication: Wafer fabrication capacity as of year-end ⁽¹⁾ :	2008	2009	2010
Shanghai mega-fab	88,000	85,000	86,000
Beijing mega-fab	40,500	42,750	52,425
Tianjin fab	32,000	34,300	33,300
Total monthly wafer fabrication capacity as of year-end ⁽¹⁾	160,500(2)	162,050(2)	171,725(2)
Wafer fabrication capacity utilization	86%	75%	95%

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The following table sets forth the historical capacity of our wafer fabrication and copper interconnects fabs as December 31, 2010:

All output and capacity data is provided as 8-inch wafers or 8-inch wafer equivalents per month.

- (1) Conversion of 12-inch wafers to 8-inch wafer equivalents is achieved by multiplying the number of 12-inch wafers by 2.25.
- (2) Mega fab structure includes copper interconnects in the total monthly capacity.

As of December 31, 2010, our aggregate wafer fabrication capacity was 171,725 8-inch wafer equivalents per month for wafer fabrication.

A key factor influencing our profit margins is our capacity utilization. Because a high percentage of our cost of sales is of a fixed nature, operations at or near full capacity have a significant positive effect on output and profitability. Our wafer fabs had an average annual utilization rate of 86% in 2008, 75% in 2009, and 95% in 2010. Factors affecting utilization rates are the overall industry conditions, the level of customer orders, the complexity of the wafers and of the mix of wafers produced, mechanical failures and other operational disruptions such as the expansion of capacity or the relocation of equipment, and our ability to manage the production facilities and product flows efficiently. Before 2008, we had manufactured DRAM to fill our production lines when the volume demand of other products does not fully utilize our available capacity. As a result, our utilization rate has historically remained high.

We determine the capacity of a fab based on the capacity ratings given by manufacturers of the equipment used in the fab, adjusted for, among other factors, actual output during uninterrupted trial runs, expected down time due to setup for production runs and approximately one to two days of scheduled annual maintenance, and expected product mix. Because these factors include subjective elements, our measurement of capacity utilization rates may not be comparable to those of our competitors. All of our fabs currently operate 24 hours per day, seven days per week, except during periods of annual maintenance. Employees in our fabs work shifts of 12 hours each day on a two-days-on, two-days-off basis.

Capacity Expansion Plans

We intend to maintain our strategy of expanding capacity and improving our process technology to meet both the capacity requirements and the technological needs of our customers. Our capital expenditures in 2009 were approximately US\$190 million and our capital expenditures in 2010 were approximately US\$728 million. We currently expect that our capital expenditures in 2011 will be approximately US\$1 billion, subject to adjustment based on market conditions, which we plan to fund through our operating cash flows and bank loans. If necessary, we will also explore other forms of external financing. We plan to use this capital primarily to expand our operations at our mega-fab in Beijing and our fab in Shanghai. In addition, our actual expenditures may exceed our planned expenditures for a variety of reasons, including changes in our business plan, our process technology, market conditions, equipment prices, or customer requirements. We will monitor the global economy, the semiconductor industry, the demands of our customers, and our cash flow from operations to adjust our capital expenditure plans.

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We also will seek to participate in strategic partnerships to meet the demands of our customers. For example, in July 2004, we entered into an agreement with Toppan Printing Co., Ltd., to establish Toppan SMIC Electronics (Shanghai) Co., Ltd., a joint venture in Shanghai, for the manufacture of color filters and micro-lenses for CMOS image sensors. These products are increasingly being used in consumer products such as mobile phone cameras, digital cameras and automobile and home security applications. Toppan SMIC Electronics (Shanghai) Co., Ltd. commenced production in December 2005. We hold a 30% equity interest in Toppan SMIC Electronics (Shanghai) Co., Ltd.

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Our Integrated Solutions

In addition to wafer fabrication, we provide our customers with a range of complementary services, from circuit design support and mask-making to wafer level probing and testing. This range of services is supported by our network of partners that assist in providing design, probing, final testing, packaging, assembly and distribution services.

The diagram below sets forth our service model and our key points of interaction with our customers:

- (1) A portion of this work is outsourced to our service partners.
- (2) A portion of these services are outsourced to our service partners.

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Design Support Services

Our design support services include providing our customers with access to the fundamental technology files and intellectual property libraries that facilitate customers—own integrated circuit design. We also offer design reference flows and access to our design center alliance, as well as layout services. In addition, we collaborate with industry leaders in electronic design automation, library and intellectual property services to create a worldwide network of expertise, resources and services that are available to implement and produce a customer—s designs.

Libraries

As part of the necessary building blocks for our customers—semiconductor designs, we offer libraries of compatible designs for portions of semiconductors, such as standard cells, I/O and selected memory blocks, in addition to technology files. We have a dedicated team of engineers who work with our research and development department to develop, license or acquire from third parties selected key libraries early on in the development of new process technologies so that our customers can quickly design sophisticated integrated circuits that utilize the new process technologies. We also have arrangements with other providers of libraries to provide our customers with access to a broad library portfolio for their designs. In particular, we offer a portfolio of ASIC library and design kits for a wide range of tested and verified circuit applications and design-flow implementation. These include standard cell, I/O and memory compilers in from 0.35 micron down to 40 nanometer process technologies. They have been developed primarily through our third party alliances, as well as by our internal research and development team, to facilitate easy design reuse and fast integration into the overall design system. We are currently developing additional libraries. Our library partners include ARM, Synopsys, Inc., VeriSilicon, and Virage Logic.

Intellectual Property

Together with the intellectual property developed by our internal design team, our alliances with intellectual property providers enable us to offer foundational designs ranging from 0.35 micron to 55 nanometer and relating to mixed-signal, embedded memory, high-speed interface, digital peripheral device controllers, and embedded processors, among others. We use our own and third party design expertise to realize the functions of these various types of intellectual property. Our intellectual property partners include ARM, MIPS, Virage, Synopsys, and Verisilicon.

Design Reference Flows

Customers implementing designs on our processes can utilize our design reference flows. These flows have been created using design tools developed by our electronic design automation partners, including Cadence Design Systems, Inc., Magma Design Automation, Inc., Mentor Graphics Corporation, and Synopsys, Inc. They include training guides and sample test cases to provide a step-by-step explanation on how the hierarchical design flow works.

Design Center Alliance

If a customer requires assistance in designing its semiconductors, we are able to recommend design partners from among our extensive design services network. This network consists of design companies that we have successfully worked with in the past. In addition, we are also able to offer our own internal design team members to help our clients to complete their designs.

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Mask-making Services

Many of our foundry customers utilize our mask-making services.

While most of our mask-making services are for customers that also utilize our wafer fabrication services as part of our overall foundry service, we also produce masks for other domestic and overseas fabs as a separate revenue-generating service. Our mask shop also cooperates with our research and development department to develop new technologies and designs.

Our mask-making facility, which is located in Shanghai, includes a 3,750 square meters clean room with up to class I specifications. At present, our mask shop offers both five-inch by five-inch, six-inch by six-inch, and seven-inch round reticles. Our facility is capable of producing binary masks, optical proximity correction masks and phase shift masks. Our mask facility also offers mask repair services.

We also offer a multi-project wafer service that allows the cost of manufacturing one mask set to be shared among several customers. See Item 4 Customers and Markets for more details regarding this service.

Intellectual property protection is a key focus of our mask-making services. See Intellectual Property for more details regarding the intellectual property protection measures we have instituted in our mask facility.

Wafer Probing, Assembly and Testing Services

We have our own probing facilities in Shanghai and Beijing that provide test program development, probe card fabrication, wafer probing, failure analysis, and failure testing. We also outsource these services to our partners for those customers that request them.

Our probing facility in Shanghai occupies a clean room space of 3,000 square meters, and our probing facility in Beijing occupies a clean room space of 1,400 square meters. Both facilities are rated at class 1,000 cleanliness and are equipped with advanced testers, probers and laser repair machines for logic, memory, and mixed-signal products. The probing facility in Beijing supports testing of Beijing s 12-inch wafers and Tianjin s 8-inch wafers. We have testing equipment for memory, logic and mixed signal applications, including some equipment that has been consigned to our Shanghai facility by our customers. This consigned testing equipment has been specially designed and built by our customers in order to probe their particular products at our facility.

Our facility with United Test and Assembly Center Ltd. is located in Chengdu, China and provides both assembly and testing services for 8-inch and 12-inch wafers. This facility focuses on memory and discrete devices. Our facility in Chengdu occupies a total area of 215,000 square meters. Construction area is 40,668 square meters, including approximately 11,000 square meters of clean room area (which joint venture, we have substantially exited in 2011). We have also established a network of partners that provide additional probing services, as well as assembly and testing services, for our customers that request these additional services. We have relationships with assembly and testing partners, including Amkor Assembly & Test (Shanghai) Co., Ltd. and ST Assembly Test Services Ltd., which have helped to enhance the range of services that we are able to offer our customers.

Customers and Markets

Our customers include IDMs, fabless semiconductor companies and systems companies. The following table sets forth the breakdown of our sales by customer type for 2008, 2009 and 2010:

	For the year ended December 31,						
	2008		2009		2010		
Customer Type	Sales	Percentage	Sales	Percentage	Sales	Percentage	
		(in US	S\$ thousands,	except percenta	ges)		
Fabless semiconductor							
companies	768,707	56.80%	710,142	66.34%	1,111,436	71.48%	
Integrated device							
manufacturers	341,933	25.30%	175,092	16.36%	252,480	16.24%	
Systems companies							
and others	243,071	17.90%	185,153	17.30%	190,873	12.28%	
Total	1,353,711	100.00%	1,070,387	100.00%	1,554,789	100.00%	

We categorize our sales geographically based on the headquarter of customer operations and is not related to shipment destination. The following table sets forth the geographical distribution of our sales and percentage of sales for 2008, 2009 and 2010:

	For the year ended December 31,						
	20	2008		09	2010		
Region	Sales	Percentage	Sales	Percentage	Sales	Percentage	
		(in U	S\$ thousands,	except percentag	ges)		
United States	766,708	56.70%	632,047	59.05%	851,914	54.79%	
Europe	92,573	6.80%	20,807	1.94%	39,178	2.52%	
Asia Pacific							
(excluding Japan							
and Taiwan)(1)	269,611	19.90%	250,224	23.38%	487,400	31.35%	
Taiwan	185,849	13.70%	157,624	14.73%	173,109	11.13%	
Japan	38,970	2.90%	9,685	0.90%	3,188	0.21%	
Total	1,353,711	100.00%	1,070,387	100.00%	1,554,789	100.00%	

We have a global and diversified customer base that includes IDMs. Although we are not dependent on any single customer, a significant portion of our sales is attributable to a relatively small number of our customers. Our sales could be significantly reduced if any of these customers cancels or reduces its orders, significantly changes its product delivery schedule or demands lower prices.

In the first quarter of 2008, the Company reached an agreement with our customers to completely exit the commodity DRAM business. The conversion of DRAM capacity into logic production was completed on schedule in the fourth quarter of 2008. As a result, our Beijing 300mm logic capacity has placed us in a better position to serve our global and China customers. In connection with the decision to exit the commodity DRAM business, we recorded an impairment loss of \$105,774,000 on long-lived assets during the first quarter of 2008.

The following table sets forth a breakdown of our sales by application type for 2008, 2009 and 2010:

	For the year ended December 31,							
	2008		20	2009		2010		
Application Type(1)	Sales	Percentage	Sales	Percentage	Sales	Percentage		
		(in US	\$\$ thousands,	except percenta	ges)			
Computing	106,184	7.80%	55,431	5.18%	52,293	3.36%		
Communications	696,399	51.50%	531,876	49.69%	756,882	48.68%		
Consumer	430,282	31.80%	407,775	38.10%	628,355	40.41%		
Others	120,846	8.90%	75,305	7.03%	117,258	7.55%		
Total	1,353,711	100.00%	1,070,387	100.00%	1,554,789	100.00%		

(1) Computing consists of integrated circuits such as hard disk drive controllers, DVD-ROM/CD-ROM driver integrated circuits, graphic processors and other components that are commonly used in personal digital assistants and desktop and notebook computers and peripherals. Communications consists of integrated circuits used in digital subscriber lines, digital signal processors, wireless LAN, LAN controllers, LCD drivers, handset components and caller ID devices. Consumer consists of integrated circuits used for DVD players, game consoles, digital cameras, smart cards and toys.

The following table sets forth a breakdown of our sales by service type for 2008, 2009 and 2010:

		Fo	r the year end	led December 31	- 9		
	20	08	20	2009		2010	
Service Type	Sales	Percentage	Sales	Percentage	Sales	Percentage	
		(in U	S\$ thousands,	except percenta	ges)		
Fabrication of memory wafers Fabrication of logic	71,935	5.30%	35,648	3.33%	20,592	1.32%	
wafers ⁽¹⁾ Other ⁽²⁾	1,139,535 142,241	84.20% 10.50%	959,689 75,050	89.66% 7.01%	1,416,250 117,947	91.09% 7.59%	
Omer /	1+2,2+1	10.30 %	73,030	7.01 %	117,547	1.3970	
Total	1,353,711	100.00%	1,070,387	100.00%	1,554,789	100.00%	

(1) Includes copper interconnects and memory devices whose manufacturing process is similar to that for a logic device.

(2) Includes mask-making and probing, etc.

We have customer service and marketing offices located in California, Milan, Shanghai, and Tokyo and a representative office in Hong Kong. Our Shanghai office serves China and other non-Japan Asian markets, our California office serves the North American market, and our Milan and Tokyo offices serve the European and Japanese markets, respectively. We also sell some products through sales agents in selected markets.

We also provide our customers with the ability to share costs through our multi-project wafer processing shuttle service. This service allows customers to share costs with other customers by processing multiple designs on a single mask set.

We provide our customers with 24-hour online access to necessary information to conduct business with us. From our technical capabilities to a customer s order status, we provide an online solution for our customers. From wafer

fabrication, wafer sorting and assembly to final testing and shipping, our data center electronically transfers data, work-in-progress tracking, yield/cycle-time reports, and quality/engineering data to customers.

Our sales cycle, meaning the time between our first contact with a customer in relation to a particular product and our first shipment of that product to the customer, typically lasts between three months to one year, depending on the type of process and product technology involved in the product we are requested to fabricate. Because of the fast-changing technology and functionality in integrated circuit design, foundry customers generally do not place purchase orders far in advance to fabricate a particular type of product. However, we engage in discussions with customers commencing in advance of the placement of purchase orders regarding customers expected fabrication requirements. See Risk Factors Risks Related to Our Financial Condition and Business Our sales cycles can be long, which could adversely affect our operating results and cause our income stream to be unpredictable.

See Item 5 Operating and Financial Review and Prospects Sales for a description of the seasonality of our business.

Research and Development

Our research and development activities are principally directed toward the development and implementation of more advanced and lower cost process technology. We spent US\$102.2 million in 2008, US\$160.8 million in 2009 and US\$174.9 million in 2010 on research and development expenses, which represented 7.6%, 15.0% and 11.2% respectively, of our sales in those respective years. Our research and development costs are partially offset by related government subsidies and include non-recurring engineering costs associated with the ramp-up of a new wafer facility. We plan to continue to invest significant amounts in research and development in 2011 for our 65 and 45 nanometer manufacturing process.

The research and development efforts were focused primarily on our logic platform and system-on-chip (SOC) applications. SMIC in 2010 has achieved many significant milestones. Early on in the year, the Company shipped 100,000 8-inch wafers to Galaxycore using CMOS image sensor (CIS) process technology. In May, Synopsys announced the immediate availability of silicon-proven and USB logo-certified DesignWare USB 2.0 nanoPhy intellectual property for 65-nanometer (nm) low-leakage (LL) process technology. In addition, the Company has longstanding partnership with leading fabless companies to include 65nm LL and 40nm LL process technologies. For system-on-chip (SOC) front, ARM and SMIC agreed to collaborate on the development of ARM leading physical IP library platform for 65nm LL and 40nm LL technology process nodes. Our 65nm LL technology successfully moves to volume production in Q3 2009, mostly implemented at our 300mm facility in Beijing.

We employ approximately 451 research and development engineers. This research and development team includes many experienced semiconductor engineers with advanced degrees from leading universities around the world, as well as top graduates from the leading universities in China. We believe this combination has enabled us to quickly bring our technology in line with the semiconductor industry technology roadmap and ensures that we will have skilled personnel to lead our technology advancement in the future.

Intellectual Property

While we continue to develop and patent our own technologies, we expect to have an ongoing need to obtain licenses for the proprietary technologies of third parties to enable us to manufacture certain advanced wafers for our customers. As of 2010 year-end, we have been granted 1,596 patents, and have more than 3,237, patent applications pending worldwide. We believe our competitors and other industry participants have numerous patents concerning wafer fabrication and related technologies in multiple countries.

We implement a variety of measures to protect the intellectual property and related interests of our company, customers and technology partners. We require our employees to execute a confidential information and invention assignment agreement

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relating to non-competition and intellectual property protection issues prior to commencing their employment at our company. Access to customer information is granted to employees strictly on a need-to-know basis both during and after mask tooling.

We have applied for trademarks relating to our corporate logo, English trade name SMIC, and Chinese trade name in the United States, China, Hong Kong and Taiwan. We have been granted registration of trademarks for our corporate logo in China, English trade name in China and Taiwan, and Chinese trade name in Hong Kong, United States and China (except a dispute in China for certain applied product/service category). There can be no assurance that other trademarks registration will be granted.

Competition

We compete internationally and domestically with dedicated foundry service providers, as well as with semiconductor companies that allocate a portion of their fabrication capacity to foundry operations. While the principal elements of competition in the wafer foundry market include technical competence, production speed and cycle time, time-to-market, research and development quality, available capacity, yields, customer service and price, we seek to compete on the basis of process technology capabilities, performance, quality and service, rather than solely on price. The level of competition differs according to the process technology involved.

Our competitors and potential competitors include other pure-play foundries such as TSMC, UMC and GlobalFoundries. TSMC has commenced commercial production at its fab in China, and UMC has established a relationship with a fab in commercial production in China. Another group of potential competitors consists of IDMs that have established their own foundry capabilities such as, Fujitsu Limited, Samsung Electronics Co., Ltd. and Toshiba. IDMs are primarily dedicated to fabricating integrated circuits for the end products of their respective affiliates. See Risk Factors-Risks Related to Our Financial Condition and Business If we cannot compete successfully in our industry, particularly in China, our results of operations and financial condition will be adversely affected.

Quality and Reliability

We have implemented quality assurance measures relating to material quality control, monitoring of our in-line processes and wafer-level reliability control at every stage of our operations from technology development to production. By combining advanced quality assurance procedures and e-commerce technology, we monitor all processes, services and materials in our mask-making, wafer fabrication and probing facilities. These quality assurance measures include inspection of incoming materials, supplier and subcontractor management, manufacturing environmental control and monitoring, in-line defect monitoring, engineering change control, calibration monitoring, chemical analysis and visual inspection. Quality assurance measures also include on-going process and product reliability monitors and failure tracking for early identification of production problems.

We incorporate reliability control in our entire production process and have adopted a system that enables us to track and record wafer-, package- and product-level reliability data throughout the development, qualification and production stages of the relevant process or device. This data enables us to identify problems at an early stage and provide an immediate diagnosis and solution, so as to further reduce our failure rate.

We achieved ISO 9001:2000 certification from the British Standards Institute with zero-defect performance for our Fab 1 in July 2002 and for our Fab 2 and Fab 3B in March 2003. The ISO 9001 quality standards were established by the International Standards Organization, an organization formed by delegates from member countries to establish international quality assurance standards for products and manufacturing processes. International Standards Organization certification is required in connection with sales of industrial products in many countries. To further enhance our quality management system, we obtained TS 16949:2002 certification from the British Standards Institute (BSI) in February 2004. This is an International Standards

In September 2008, our S2/Fab 8 passed the BSI ISO 27001:2005 with zero defect an outstanding achievement for us. This BSI ISO27001 audit is the expansion of the information security management systems certification review, which was an added certification to the original mask shop and design center services. ISO27001 is a widely recognized information security standard in the industry.

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Organization quality management certification that relates to automobile applications and primarily measures a device s ability to handle extreme changes in temperature. In January 2005, we obtained TL9000 Quality Management System certification from BSI. This is a management certification relating to the telecommunications industry and evaluates research and development, production and installation and maintenance of communication product and services.

Raw Materials

Our fabrication processes uses many raw materials, primarily silicon wafers, chemicals, gases, and various types of precious and other metals. Raw material costs constituted 19%, 18% and 21% of our manufacturing costs in 2008, 2009 and 2010, respectively.

The three largest components of raw material costs raw wafers, chemicals and gases - accounted for approximately 40%, 20% and 9%, respectively, of our raw material costs in 2008, approximately 38%, 21%, and 10%, respectively, of our raw materials in 2009, and approximately 37%, 22%, and 10%, respectively, of our raw materials in 2010. Most of our raw materials generally are available from several suppliers, but substantially all of our principal materials requirements must currently be sourced from outside China.

The most important raw material used in our production is silicon in the form of raw wafers. In 2010, we purchased approximately 73.7% of our overall raw wafer requirements from our three major raw wafer suppliers. The prices of our principal raw material are not considered to be volatile.

For 2010, our largest and five largest raw materials suppliers accounted for approximately 8.01% and 33.52%, respectively, of our overall raw materials purchases. For 2009, our largest and five largest raw materials suppliers accounted for approximately 11.2% and 43.2%, respectively, of our overall raw materials purchases. For 2008, our largest and five largest raw materials suppliers accounted for approximately 8.0% and 32.3%, respectively, of our overall raw materials purchases. Having made all reasonable inquiry, we are not aware of any director or shareholder (which to the knowledge of our directors own more than 5% of our issued share capital) or their respective associates, which had shareholding interests in any of our five largest suppliers. Most of our materials are imported free of value-added tax and import duties due to concessions granted to our industry in China.

Electricity and Water

We use substantial amounts of electricity in our manufacturing process. This electricity is sourced from the Pudong Electricity Corporation (for Shanghai), the Beijing Municipal Electricity Department, the Tianjin Municipal Electricity Department, the PiXian Municipal Electricity Department (for Chengdu), and the Shenzhen PanGuShi Municipal Electricity Department. We maintain Uninterrupted Power Supply (UPS) systems and emergency back-up generators to power life safety and critical equipment and systems for emergencies.

The semiconductor manufacturing process also uses extensive amounts of fresh water. We source our fresh water for our Shanghai mega-fab from Pudong Vivendi Water Corporation Limited, for our Beijing mega-fab from Beijing Waterworks Group Co. Ltd., for our Tianjin fab from the Tianjin Municipal Water Department, for our Chengdu facility from the Xipu Water Corporation, Ltd., and for our Shenzhen facility from Grand Industrial Zone Water Company of Shenzhen. Because Beijing and Tianjin are subject to potential water shortages in the summer, our fabs in Beijing and Tianjin are equipped with back-up reservoirs. We have taken steps to reduce fresh water consumption in our fabs and capture rainwater for use at our Beijing and Tianjin facilities, and our water recycling systems in each of our fabs allow us to recycle up to 70% of the water used during the manufacturing process. The Beijing site is also equipped to use recycled/treated industrial waste water from the Beijing Economic and Technological Development Area for non-critical operations.

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Regulation

Integrated circuit industry in China is subject to substantial regulation by the Chinese government. This section sets forth a summary of the most significant Chinese regulations that affect our business in China.

Scope of Regulation

The Several Policies to Encourage the Development of Software and Integrated Circuit Industry, or the Integrated Circuit Policies, promulgated by the State Council of The People s Republic of China on June 24, 2000, together with other ancillary laws and regulations, regulates integrated circuit production enterprises, or ICPEs. The State Council issued the Integrated Circuit Policies in order to encourage the development of the software and integrated circuits industry in China. The Integrated Circuit Policies form the basis for a series of laws and regulations that set out in detail the preferential policies relating to ICPEs. Such laws and regulations include:

the Notice of the Ministry of Finance, the State Administration of Taxation and the General Administration of Customs on Relevant Taxation Policy Encouraging the Further Development of the Software Industry and the Integrated Circuit Industry, or the Integrated Circuit Notice, jointly issued by the Ministry of Finance, the State Administration of Taxation and the General Administration of Customs on September 22, 2000, as amended by the Notice of the Ministry of Finance and the State Administration of Taxation on Approval Procedure Concerning Foreign Invested Enterprises Implementing Enterprise Income Tax Policies of the Software and Integrated Circuit Industry, or the Approval Notice, jointly issued by the Ministry of Finance and the State Administration of Taxation on July 1, 2005;

the Notice of the Ministry of Finance, the State Administration of Taxation on Taxation Policies Concerning the Tax Policies for Further Encouraging the Development of the Software and the Integrated Circuit Industry, or the Further Development Taxation Notice, jointly issued by the Ministry of Finance and the State Administration of Taxation on October 10, 2002, as amended by Notice of the Ministry of Finance, the State Administration of Taxation on Termination of Value-added Tax Refund Policies for Integrated Circuits, or the Termination Notice, jointly issued by the Ministry of Finance and the State Administration of Taxation on October 25, 2004;

the Notice of the Ministry of Finance on Taxation Policies Concerning the Import of Self-used Raw Materials and Consumables by Part of Integrated Circuit Production Enterprises, or the Raw Materials Taxation Notice, issued by the Ministry of Finance on August 24, 2002;

the Notice on Taxation Policies Concerning the Import of Construction Materials Specially used for Clean Rooms by Part of the Integrated Circuit Production Enterprises, or the Construction Materials Taxation Notice, issued by the Ministry of Finance on September 26, 2002;

the Notice by the Ministry of Finance and the State Administration of Taxation on Increasing Tax Refund Rate for Export of Certain Information Technology(IT) Products, or the Export Notice, issued by the Ministry of Finance and the State Administration of Taxation on December 10, 2004;

the Measures for the Accreditation of the Integrated Circuit Enterprise Encouraged by the State (For Trial Implementation), or the Accreditation Measures, jointly issued by the National Development and Reform Commission, the Ministry of Information Industry, the State Administration of Taxation and the General Administration of Customs on October 21, 2005; and

the *Interim Measures for the Management of the Special Fund for the Research and Development of the Integrated Circuit Industry*, or the Fund Measures, jointly issued by the Ministry of Finance, the Ministry of Information Industry and the National Development and Reform Commission on March 23, 2005.

Preferential Industrial Policies Relating to ICPEs

ICPEs which are duly accredited in accordance with relevant laws and regulations may qualify for preferential industrial policies. Under the Integrated Circuit Policies, accreditation of ICPEs is determined by the competent examination and approval authorities responsible for integrated circuit projects after consultation with relevant taxation authorities. Under the Accreditation Measures, an integrated circuit enterprise refers to an independent legal entity duly established in the PRC (except for Hong Kong, Macao, and Taiwan) engaging in the fabrication, package, or testing of integrated circuit chips and the production of mono-crystalline silicon of six inches or above, excluding the integrated circuit design enterprise. The accreditation of ICPEs is included in the accreditation of the integrated circuit enterprises. Such accreditation is determined by the competent authorities consisting of the National Development and Reform Commission, the Ministry of Information Industry, the State Administration of Taxation and the General Administration of Customs, which jointly designate the China Semiconductor Industrial Association as the accreditation institution. Any enterprise qualified under the requirements set forth in the Accreditation Measures is entitled to apply to the China Semiconductor Association for the Accreditation of the ICPEs. The accreditation of ICPEs is annually reviewed. If the enterprise fails to apply for the annual review in time, it shall be deemed as giving up such accreditation and if the enterprise fails in the annual review, the accreditation will also be canceled.

SMIC Shanghai, SMIC Beijing, and SMIC Tianjin have been accredited as ICPEs and are entitled to the preferential industrial policies described below.

Encouragement of Domestic Investment in ICPEs

Pursuant to the *Interim Provisions on Promoting Industrial Structure Adjustment*, or the Interim Provisions, issued by the State Council on December 2, 2005, and the *Catalogue for the Guidance of Industrial Structure Adjustment*, or the Guidance Catalogue, which is the basis and criteria for implementing the Interim Provisions, issued by the National Development and Reform Commission and all the State Council Institutions on December 2, 2005, the Chinese government encourages (i) the design and fabrication of large scale integrated circuits with a line width of less than 1.2 micron, (ii) the fabrication of the equipment of large scale integrated circuit and (iii) the fabrication of mixed integrated circuits. Under the Interim Provisions, imported equipment that is used for a qualifying domestic investment project and that falls within such project s approved total investment amount is exempt from custom duties and import-linked value-added tax, except for such equipment listed in the *Catalogue of Import Commodities for Domestic Investment Projects Not Entitled to Tax Exemptions*, as stipulated by the State Council and amended in 2006.

Encouragement of Foreign Investment in ICPEs

Pursuant to the Integrated Circuit Policies and the *Guideline Catalogue of Foreign Investment Industries* promulgated jointly by the State Development and Reform Commission and the Ministry of Commerce on October 11, 2007, the following foreign investment categories are encouraged:

design of integrated circuits;

fabrication of large scale integrated circuits with a line width of less than 0.18 micron (including 0.18 micron);

fabrication of analog and analog digital integrated circuits with a line width of less than 0.8 micron (including 0.8 micron);

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advanced packaging and testing of BGA, PGA, CSP, MCM;

fabrication of mixed integrated circuits.

Foreign investment in such encouraged projects may enjoy preferential treatment as stipulated by the laws and regulations.

Preferential Taxation Policies

Semiconductor Manufacturing International Corporation is a tax-exempted company incorporated in the Cayman Islands

Prior to January 1, 2008, the subsidiaries incorporated in the PRC were governed by the Income Tax Law of the PRC Concerning Foreign Investment and Foreign Enterprises and various local income tax laws (the FEIT Laws).

On March 16, 2007, the National People's Congress of China enacted a new Enterprise Income Tax Law (New EIT Law), which became effective January 1, 2008. Under the New EIT Law, domestically- owned enterprises and foreign invested enterprises (FIEs) are subject to a uniform tax rate of 25%. The New EIT Law also provides a transition period starting from its effective date for those enterprises which were established before the promulgation date of the New EIT Law and which are entitled to a preferential lower tax rate and/or tax holiday under the FEIT Law or other related regulations. Based on the New EIT Law, the tax rate of such enterprises will transition to the uniform tax rate throughout a five-year period. Tax holidays that were enjoyed under the FEIT Laws may to be enjoyed until the end of the holiday. FEIT Law tax holidays that have not started because the enterprise is not profitable will take effect regardless whether the FIEs are profitable in 2008.

According to Guofa [2007] No. 39 the Notice of the State Council Concerning Implementation of Transitional Rules for Enterprise Income Tax Incentives effective from January 1, 2008, enterprises that enjoyed preferential tax rates shall gradually transit to the statutory tax rate over 5 years after the new EIT Law is effective. Enterprises that enjoyed a tax rate of 15% under the FEIT Law shall be levied rates of 18% in 2008, 20% in 2009, 22% in 2010, 24% in 2011 and 25% in 2012 and thereafter.

On February 22, 2008, the PRC government promulgated Caishui Circular [2008] No.1, the Notice of the Ministry of Finance and State Administration of Tax concerning Certain Enterprise Income Tax Preferential Policies (Circular No.1). Pursuant to Circular No.1, integrated circuit production enterprises whose total investment exceeds RMB8,000 million (approximately \$1,095 million) or whose integrated circuits have a line width of less than 0.25 micron are entitled to preferential tax rate of 15%. If the operation period is more than 15 years, those enterprises are entitled to a full exemption from income tax for five years starting from the first profitable year after utilizing all prior years tax losses and 50% reduction for the following five years. SMIS, SMIB and SMIT have met such accreditation requirements.

On February 9, 2011, the State Council of China issued Guo Fa [2011] No.4, the Notice on Certain Policies to Further Encourage the Development of the Software and Integrated Circuit Industries (Circular No.4), to provide various incentives from tax, investment and financing, and R&D perspectives for the software and integrated circuit industries. In particular, Circular No.4 reinstates certain EIT incentives stipulated by Circular No.1 for the software and integrated circular enterprises.

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Preferential Policies Encouraging Research and Development

The new EIT Law and the Implementation Regulations of the new EIT Law have provided tax incentives in relation to technologies as a means to encourage advancement and adoption of new technologies. The new EIT Law provides an additional 50% deduction of the research and development expenses incurred from the research and development of new technologies, new products, and new techniques on the basis of the actual deductions when relevant enterprise has no intangible asset to be formed and calculated into the current gains and losses. If intangible assets have been formed, they shall be amortized at 150% of the cost of the intangible assets.

Legal Framework Concerning the Protection of Intellectual Property Relating to Integrated Circuits

China has formulated various laws and regulations on intellectual property protection in respect of integrated circuits including:

the *Patent Law of the People s Republic of China*, adopted at the fourth meeting of the Standing Committee of the Sixth National People s Congress on March 12, 1984, effective April 1, 1985 and amended by the Ninth National People s Congress on August 25, 2000 and third amended by the Eleventh People s Congress on December 27, 2008, effective October 1, 2009;

the *Paris Convention for the Protection of Industrial Property* of the World Intellectual Property Organization, in which China became a member state as of March 19, 1985;

the General Principles of the Civil Law of the People s Republic of China adopted at the fourth session of the Sixth National People s Congress on April 12, 1986, effective January 1, 1987 and revised at the thirtieth session of the Tenth National People s Congress on October 28, 2007. In this legislation, intellectual property rights were defined in China s basic civil law for the first time as the civil rights of citizens and legal persons;

the *Copyright Law of the People s Republic of China*, adopted by the 15th meeting of the Seventh National People s Congress Standing Committee on September 7, 1990, effective June 1, 1991 and amended by the Ninth National People s Congress on October 27, 2001;

the Regulations for the Protection of the Layout Design of Integrated Circuits, or the Layout Design Regulations, adopted April 2, 2001 at the thirty-sixth session of the executive meeting of the State Council, effective October 1, 2001; and

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the World Intellectual Property Organization s Washington Treaty on Intellectual Property in Respect of Integrated Circuits, for which China was among the first signatory states in 1990.

Protection of the Layout Design of Integrated Circuits

Under the Layout Design Regulations, layout design of an integrated circuit refers to a three dimensional configuration in an integrated circuit that has two or more components, with at least one of these being an active component, and part or all of the interconnected circuitry or the three-dimensional configuration prepared for the production of integrated circuits.

Chinese natural persons, legal persons or other organizations that create layout designs are entitled to the proprietary rights in the layout designs in accordance with the Layout Design Regulations. Foreign persons or enterprises that create layout designs and have them first put into commercial use in China are entitled to the proprietary rights in the layout designs in accordance with the Layout Design Regulations. Foreign persons or enterprises that create layout designs and that are from a country that has signed agreements with China regarding the protection of layout designs, or is a party to an international treaty concerning the protection of layout designs to which China is also a party, are entitled to the proprietary rights of the layout designs in accordance with the Layout Design Regulations.

Proprietary Rights in Layout Design of Integrated Circuits

Holders of proprietary rights in a layout design are entitled to the following proprietary rights: to duplicate the whole protected layout design or any part of the design that is original; and

to make commercial use of the protected layout design, the integrated circuit containing the layout design, or commodities containing the integrated circuit.

Proprietary rights in layout designs become valid after being registered with the administrative department of the State Council responsible for intellectual property. Unregistered layout designs are not protected by the Layout Design Regulations.

The protection period of the proprietary rights in a layout design is ten years, commencing from the date of the application for registration of the layout design or the date that it is put into commercial use anywhere in the world, whichever is earlier. However, regardless of whether or not a layout design is registered, or whether or not it is put into commercial use, it is not protected after 15 years from the time of its creation.

Registration of a Layout Design

The administrative departments of the State Council responsible for intellectual property are responsible for the registration of layout designs and accepting applications for the registration of layout designs. If an application for a layout design registration is not made with the administrative department of the State Council responsible for intellectual property within two years after it has been put into commercial use anywhere in the world, the administrative department of the State Council responsible for intellectual property will not register the application. A holder of proprietary rights in a layout design may transfer the proprietary rights or give permission for other parties to use the layout design.

Compulsory Licenses for Exploitation of Patents in Respect of Semiconductor Technology

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Under the Patent Law and the Implementing Regulations of the Patent Law, after three years from the date of granting the patent rights, any person or enterprise that has made good faith reasonable proposals to the holder of proprietary rights seeking a license to those rights, but has been unable to obtain such license after an extended period of time, may request the administrative department responsible for patents under the State Council to grant a compulsory license for the relevant patent. However, where a compulsory license involves semiconductor technology, the implementation of a compulsory license is restricted to public and non-commercial uses, or to uses that counteract anti-competitive actions, as determined by judicial or administrative procedures.

PRC Tax for Resident Enterprises

Under China s New EIT Law, we may be classified as a resident enterprise of China. This classification could result in unfavorable tax consequences to us and our non-PRC shareholders. The implementing rules of the New EIT Law define de facto management bodies as management bodies that exercises substantial and overall management and control over the production and operations, personnel, accounting, and properties of the enterprise. Currently no official interpretation or application of this new resident enterprise classification is available, therefore it is unclear how tax authorities will determine tax residency based on the facts of each case.

If the PRC tax authorities determine that our Cayman Islands holding company is a resident enterprise for PRC enterprise income tax purposes, a number of unfavorable PRC tax consequences could follow. First, we may be subject to enterprise income tax at a rate of 25% on our worldwide taxable income as well as PRC enterprise income tax reporting obligations. Second, although under the New EIT Law and its implementing rules dividends income between qualified resident enterprises is exempted income, it is not clear what is considered a qualified resident enterprise under the New EIT Law. Finally, it is possible that future guidance issued with respect to the new resident enterprise classification could result in a situation in which a 10% withholding tax is imposed on dividends we pay to our non-PRC shareholders and with respect to gains derived by our non-PRC shareholders from transferring our shares or ADSs. Similarly, these unfavorable consequences could apply to our other overseas intermediary holding companies if they are classified as a PRC resident enterprises.

Environmental Regulation

Our Chinese subsidiaries are subject to a variety of Chinese environmental laws and regulations promulgated by the central and local governments concerning examination and acceptance of environmental protection measures in construction projects, the use, discharge and disposal of toxic and hazardous materials, the discharge and disposal of waste water, solid waste, and waste gases, control of industrial noise and fire prevention. These laws and regulations set out detailed procedures that must be implemented throughout a project s construction and operation phases.

A key document that must be submitted for the approval of a project s construction is an environmental impact assessment report that is reviewed by the relevant environmental protection authorities. Upon completion of construction, and prior to commencement of operations, an additional examination and acceptance by the relevant environmental authority of such projects is also required. Within one month after receiving approval of the environmental impact assessment report, a semiconductor manufacturer is required to apply to and register with the competent environmental authority the types and quantities of liquid, solid and gaseous wastes it plans to discharge, the manner of discharge or disposal, as well as the level of industrial noise and other related factors. If the above wastes and noise are found by the authorities to have been managed within regulatory levels, renewable discharge registrations for the above wastes and noise are then issued for a specified period of time. SMIC Shanghai, SMIC Beijing, SMIC Tianjin, and SMIC Chengdu have all received approval with respect to their relevant environmental impact assessment reports and discharge registrations.

From time to time during the operation of our Chinese subsidiaries, and also prior to renewal of the necessary discharge registrations, the relevant environmental protection authority will monitor and audit the level of environmental protection

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compliance of these subsidiaries. Discharge of liquid, solid or gaseous waste over permitted levels may result in imposition of fines, imposition of a time period within which rectification must occur or even suspension of operations.

Enforceability Of Civil Liabilities

We are a Cayman Islands holding company. We are incorporated in the Cayman Islands because of the following benefits associated with being a Cayman Islands corporation:

political and economic stability;

an effective judicial system;

a favorable tax system;

the absence of exchange control or currency restrictions; and

the availability of professional and support services.

However, the Cayman Islands have a less developed body of securities laws as compared to the United States and provides significantly less protection for investors. In addition, Cayman Islands companies may not have standing to sue before the federal courts of the United States. Substantially all of our assets are located outside the United States. In addition, most of our directors and officers are nationals and/or residents of countries other than the United States, and all or a substantial portion of our or such persons—assets are located outside the United States. As a result, it may be difficult for a shareholder to effect service of process within the United States upon us or such persons or to enforce against them or against us, judgments obtained in United States courts, including judgments predicated upon the civil liability provisions of the securities laws of the United States or any state thereof.

Convers Dill & Pearman, our counsel as to Cayman Islands law, Slaughter and May, our counsel as to Hong Kong law, and Fangda Partners, our counsel as to Chinese law, have advised us that there is uncertainty as to whether the courts of the Cayman Islands, Hong Kong and China, respectively, would:

recognize or enforce judgments of United States courts obtained against us or our directors or officers predicated upon the civil liability provisions of the securities laws of the United States or any state thereof, or

be competent to hear original actions brought in each respective jurisdiction, against us or our directors or officers predicated upon the securities laws of the United States or any state thereof.

Convers Dill & Pearman has further advised us that a final and conclusive judgment in the federal or state courts of the United States under which a sum of money is payable, other than a sum payable in respect of taxes, fines, penalties or similar charges, may be subject to enforcement proceedings as a debt in the Courts of the Cayman Islands under the common law doctrine of obligation.

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Organizational Structure

We operate primarily through three wholly owned subsidiaries in China. The chart below sets forth our significant operating subsidiaries or affiliates, including their jurisdictions of incorporation and principal activities as of December 31, 2010:

	Place and date of	Attributable equity interest	Principal
Name of company Better Way Enterprises Limited (Better Way)	incorporation/establishment Samoa April 5, 2000	held 100%	Activity Provision of marketing related activities
Semiconductor Manufacturing International (Shanghai) Corporation (SMIC Shanghai or SMIS)*#	PRC December 21, 2000	100%	Manufacturing and trading of semiconductor products
SMIC, Americas	United States of America June 22, 2001	100%	Provision of marketing related activities
Semiconductor Manufacturing International (Beijing) Corporation (SMIC Beijing or SMIB)*#	PRC July 25, 2002	100%	Manufacturing and trading of semiconductor products
SMIC Japan Corporation*	Japan October 8, 2002	100%	Provision of marketing related activities
SMIC Europe S.R.L.	Italy July 3, 2003	100%	Provision of marketing related activities
Semiconductor Manufacturing International (Tianjin) Corporation (SMIC Tianjin or SMIT)*#	PRC November 3, 2003	100%	Manufacturing and trading of semiconductor products
SMIC Commercial (Shanghai) Limited Company (formerly SMIC Consulting Corporation) *#	PRC September 30, 2003	100%	Operation of a convenience store
Semiconductor Manufacturing International (AT) Corporation (AT (Note 1)	Cayman Islands)*July 26, 2004	66.3%	Investment holding
Semiconductor Manufacturing International (Chengdu) Corporation (SMIC Chengdu or SMICD) *# (Note 1)	PRC December 28, 2004	66.3%	Manufacturing and trading of semiconductor products

Semiconductor Manufacturing International (Solar Cell) Corporation Cayman Islands June 30, 2005 100%

Investment holding

	Place and date of	Attributable equity interest	Principal
Name of company SMIC Energy Technology (Shanghai) Corporation (Energy Science)*#	incorporation/establishment PRC September 9, 2005	held 100%	Activity Manufacturing and trading of solar cells related semiconductor products
SMIC Development (Chengdu) Corporation*#	PRC December 29, 2005	100%	Construction, operation, management of SMICD s living quarter, schools and supermarket
Magnificent Tower Limited	British Virgin Islands January 5, 2006	100%	Investment holding
Semiconductor Manufacturing International (BVI) Corporation (SMIC (BVI))*	British Virgin Islands April 26, 2007	100%	Investment holding
SMIC AT (HK) Company Limited (SMIC AT (HK))* (Note 1)	Hong Kong February 11, 2008	66.3%	Investment holding
SMIC Solar Cell (HK) Company Limited (SMIC Solar Cell (HK))*	Hong Kong December 3, 2007	100%	Investment holding
SMIC Shanghai (HK) Company Limited (SMIC SH (HK))*	Hong Kong December 3, 2007	100%	Investment holding
SMIC Beijing (HK) Company Limited (SMIC BJ (HK))*	Hong Kong December 3, 2007	100%	Investment holding
SMIC Tianjin (HK) Company Limited (SMIC TJ (HK))*	Hong Kong December 3, 2007	100%	Investment holding
SMIC Shanghai (Cayman) Corporation (SMIC SH (Cayman))*	Cayman Islands November 8, 2007	100%	Investment holding
SMIC Beijing (Cayman) Corporation (SMIC BJ (Cayman))*	Cayman Islands November 8, 2007	100%	Investment holding
SMIC Tianjin (Cayman) Corporation (SMIC TJ (Cayman))*	Cayman Islands November 8, 2007	100%	Investment holding
SMIC (Wuhan) Development Corporation*#	PRC March 27, 2007	100%	Construction, operation, management of living quarter, schools

Admiral Investment Holdings Limited British Virgin Islands October 10, 2007 100% Investment holding

Name of company SMIC Shenzhen (Cayman) Corporation	Place and date of incorporation/establishment Cayman Islands January 21, 2008	Attributable equity interest held 100%	Principal Activity Investment holding
SMIC Shenzhen (HK) Company Limited	Hong Kong January 29, 2008	100%	Investment holding
SilTech Semiconductor Corporation	Cayman Islands February 13, 2008	97.7%	Investment Holding
SilTech Semiconductor (Hong Kong) Corporation Limited*	Hong Kong March 20, 2008	97.7%	Investment holding
Semiconductor Manufacturing International (Shenzhen) Corporation*#	PRC March 20, 2008	100%	Manufacturing and trading of semiconductor products
SilTech Semiconductor (Shanghai) Corporation Limited	PRC March 3, 2009	97.7%	Manufacturing and trading of semiconductor products
Brite Semiconductor Corporation	Cayman Islands	44.2%	Investment Holding
Brite Semiconductor Corporation Hong Kong Limited	Hong Kong	44.2%	Investment Holding
Brite Semiconductor Corporation	PRC	44.2%	Design House

Note 1: Please refer to Note 30 (Subsequent Events) to the consolidated financial statements for details regarding the subsequent changes of the company s shareholding.

[#] Companies registered as wholly-owned foreign enterprises in the *People s Republic of China*. (*PRC*), excluding for the purpose of this report, Hong Kong, Macau, and Taiwan.

^{*} For identification purposes only.

Property, plant and equipment

Equipment

The quality and level of technology of the equipment used in the semiconductor fabrication process are important because they dictate the limits of the process technology that we use. Advances in process technology cannot be achieved without corresponding advances in equipment technology. The principal pieces of equipment used by us to fabricate semiconductors are scanners, cleaners and track equipment, inspection equipment, etchers, furnaces, wet stations, strippers, implanters, sputterers, CVD equipment, testers and probers. We source substantially all of our equipment from vendors located in the United States, Europe and Japan.

In implementing our capacity expansion and technology advancement plans, we expect to make significant purchases of equipment required for semiconductor fabrication. Some of the equipment is available from a limited number of vendors and/or is manufactured in relatively limited quantities, and in some cases has only recently become commercially available. Our ability to obtain certain kinds of equipment from outside of China may be subject to restrictions. See Risk Factors Risks Related to Conducting Operations in China-Limits placed on exports into China could substantially harm our business and operating results.

We maintain our equipment through a combination of in-house maintenance and outside contracting to our equipment vendors. We decide whether to maintain ourselves, or subcontract the maintenance of, a particular piece of equipment based on a variety of factors, including cost, complexity and regularity of the required periodic maintenance and the availability of maintenance personnel in China. Most of our equipment vendors offer maintenance services through technicians based in China. *Property*

Our corporate headquarters and our mega-fab in Shanghai occupy 367,895 square meters of land, for which we hold valid land use rights certificates. These fabs currently occupy approximately 45% of this total land area. We also hold valid land use rights for the 240,140 square meters of land that comprise our Beijing site, approximately 75% of which will be occupied by the Beijing mega-fab. In 2005, we received land use rights certificates for 215,733 square meters of land in Tianjin, which is occupied by the Tianjin fab. We own all of the buildings and equipment for our fabs, except for certain customer-owned tooling provided to our Shanghai operations for test production on a consignment basis from our customers.

The following table sets forth the location, size and primary use of our real properties and whether such real properties are owned or leased.

Location	Size (Land/Building) (in square meters)	Primary Use	Owned ⁽¹⁾ or Leased (Land/Building)
Zhangjiang High-Tech Park, Pudong New Area,			
Shanghai	530,831/164,795	Wafer fabrication	owned/owned
Beijing Economic and Technological			
Development Area	506,562/143,017	Wafer fabrication	owned/owned
Xiqing Economic Development Area, Tianjin	215,733/61,990	Wafer fabrication	owned/owned
Shenzhen Export Processing Zone, Shenzhen			
Pingshan New Area, Guangdong	200,060/225,986	Wafer fabrication	owned/owned
Export Processing Zone (West Area), Chengdu	215,874/35,850	Assembly and Test	owned/owned
Japan	na/55	Marketing activities	na/leased
USA	na/743	Marketing activities	na/leased

			Owned $^{(1)}$ or
	Size		Leased
Location	(Land/Building)	Primary Use	(Land/Building)
	(in square meters)		
Italy	na/280	Marketing activities	na/leased
Hong Kong ⁽²⁾	na/300	Representative Office	na/owned

- (1) With respect to land located in China, ownership refers to holding a valid land use rights certificate. All land within municipal zones in China is owned by the Chinese government. Limited liability companies, joint stock companies, foreign-invested enterprises, privately held companies and individual natural persons must pay fees to be granted rights to use land within municipal zones. Legal use of land is evidenced and sanctioned by land use certificates issued by the local municipal administration of land resources. Land use rights granted for industrial purposes are limited to a term of no more than 50 years.
- (2) In February 2006, we purchased approximately 300 square meter of property in Hong Kong through our indirect wholly-owned subsidiary, Magnificent Tower Limited, a company incorporated in the British Virgin Islands.

The construction of our 8-inch fab in Shenzhen began in 2008 in an effort to expand our production capacity and is expected to commence commercial production in 2011. We plan to gradually increase the capacity in the Shenzhen fab based on market conditions. This project will be financed through our operating cash flows as well as through external financing. See Risk Factors Risks Related to Our Financial Condition and Business Since our operating cash flows will not be sufficient to cover our planned capital expenditures, we will require additional external financing, which may not be available on acceptable terms or at all. Any failure to raise adequate funds in a timely manner could adversely affect our business and operating results, and Risk Factors Risks Related to Our Financial Condition and Business The construction and equipping of new fabs and the expansion of existing fabs are subject to certain risks that could result in delays or cost overruns, which could require us to expend additional capital and adversely affect our business and operating results.

Our right to continued use of the land is subject to our continued compliance with the land use agreement that each of our Chinese subsidiaries has executed. The Chinese government has reserved the right to revoke our land use rights for special eminent domain purposes, in which case the government will compensate us. In addition, pursuant to an amendment to its domestic bank loan agreements, SMIC Beijing and SMIC Tianjin have pledged a portion of its land use right to the lenders. See Item 5 Operating and Financial Review and Prospects Liquidity and Capital Resources.

For a description concerning our capacity, capacity utilization rate and capacity expansion plans, please see
Item 5
Operating and Financial Review and Prospects
Factors that Impact our Results of Operations.

Risk Management and Insurance

We have been OHSAS18001 certified since September 2003. Our health and safety management philosophy is based on incident prevention, which is achieved through:

Mandatory staff and vendor safety training;

Compliance of equipment and facilities to safety criteria, including the Semiconductor Equipment and Materials International and Chinese National Fire Protection Association standards

A culture of accountability, whereby managers and employees are held responsible for the their own and their group s safety performance;

Regularly scheduled audits; and

Standard management procedures.

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We have established a corporate risk management committee and at each fab, an Emergency Response Center (ERC), to respond to emergencies. The ERCs are staffed 24 hours a day and are equipped with safety and security monitoring systems such as closed circuit television, gas monitoring systems, public announcement systems, and fire alarm monitoring systems.

Each department conducts emergency drills on a regular basis in accordance with our emergency response plan to address possible emergency situations that could arise. These emergency scenarios include fires, gas leakages, chemical spills, and power losses.

We maintain insurance with respect to our facilities, equipment, and inventories. The insurance for the fabs and their equipment covers, subject to some limitations, various risks, including industrial accidents and natural disasters, generally up to their respective replacement values and loss due to business interruption. We have not made any significant claims under these insurance policies. Equipment and inventories in transit are also insured.

Environmental Matters

The semiconductor production process generates gaseous chemical wastes, liquid waste, waste water, and other industrial wastes in various stages of the fabrication process. We have installed various types of pollution control equipment for the treatment of gaseous chemical waste and liquid waste and equipment for the recycling of treated water in our fabs. Our operations are subject to regulation and periodic monitoring by PRC s State Environmental Protection Bureau, as well as local environmental protection authorities, including those under the Shanghai Pudong Municipal Government, the Beijing Municipal Government, the Tianjin Municipal Government, and the Chengdu Municipal Government, which may in some cases establish stricter standards than those imposed by the State Environmental Protection Bureau. The Chinese national and local environmental laws and regulations impose fees for the discharge of waste substances above prescribed levels, require the payment of fines for serious violations, and authorize the Chinese national and local governments to suspend any facility that fails to comply with orders requiring it to cease or remedy operations causing environmental damage. No such penalties have been imposed on us or any of our subsidiaries for violations of environmental pollution.

We believe our pollution control measures are effective, complying with the requirements applicable to the semiconductor industry in China and comparable to other countries. Waste generated from our operations, including acid waste, alkaline waste, flammable waste, toxic waste, oxidizing waste, and self-igniting waste, are collected and sorted for proper disposal. Furthermore, we have in many cases implemented waste reduction steps beyond the scope of current regulatory requirements. In addition, we continuously investigate methods to lower our energy consumption, including making existing processes more efficient and reclaiming waste heat.

The ISO14001 standard is a voluntary standard and part of a comprehensive series of standards for environmental management published by the International Standards Organization. The ISO14001 standard cover environmental management principles, systems and supporting techniques. SMIC first received ISO14001 certification in August 2002.

In addition, all fabs currently in operation have been third-party certified to be compliant with the RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) Directive of the European Union, which bans the use of various chemicals determined to be harmful to the environment. Once the Shenzhen facility is in operation, it too will undergo certification for ISO14001 and RoHS compliance.

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Item 5. Operating and Financial Review and Prospects

Overview

We were founded in April 2000. In 2000 and 2001, our company was in its development stage and did not have any sales. During this period, we established our management structure, acquired land use rights, constructed, equipped and commenced the ramp-up of production at our 8-inch wafer facilities in Shanghai which are referred to as the Shanghai mega-fab, and began our research and development activities. The first fab in the Shanghai mega-fab and a portion of our second fab, commenced commercial production in January 2002. The remaining portion of our second fab and a third fab commenced commercial production in January 2003. In January 2004, we acquired an 8-inch fab in Tianjin, China, which we refer to as our Fab 7, from MCEL, a wholly owned subsidiary of Motorola. The first fab in the Beijing mega-fab commenced commercial production in March of 2005. As of December 31, 2010, we had reached total wafer fabrication capacity of 171,725 8-inch wafer equivalents per month. Our wafers shipped and sales decreased from 1,611,208 wafers and US\$1,353.7 million for 2008 to 1,376,663 wafers and US\$1,070.4 million for 2009 and then increased to 1,985,974 wafers and US\$1,554.8 million for 2010.

We manage our business and measure our results of operations based on a single operating segment. We anticipate an increase in aggregate capacity by the end of 2011 subject to market conditions. As we increase our capacity and corresponding wafer production, we anticipate benefits from economies of scale. When our capacity utilization is high, these economies of scale enable us to reduce our per wafer production cost and improve our margins. On the other hand, when our capacity utilization rate is low, our unused capacity results in higher per wafer production cost and decreased margins.

Factors that Impact Our Results of Operations Cyclicality of the Semiconductor Industry

The semiconductor industry is highly cyclical due mainly to the cyclicality of demand in the markets of the products that use semiconductors. As these markets fluctuate, the semiconductor market also fluctuates. This fluctuation in the semiconductor market is exacerbated by the tendency of semiconductor companies, including foundries, to make capital investments in plant and equipment during periods of high demand since it may require several years to plan, construct and commence operations at a fab. Absent sustained growth in demand, this increase in capacity often leads to overcapacity in the semiconductor market, which in the past has led to a significant underutilization of capacity and a sharp drop in semiconductor prices. The semiconductor industry is generally slow to react to declines in demand due to its capital-intensive nature and the need to make commitments for equipment purchases well in advance of the planned expansion.

Substantial Capital Expenditures

The semiconductor foundry industry is characterized by substantial capital expenditures. This is particularly true for our company as we have recently constructed and equipped fabs and are continuing to construct and equip new fabs. In connection with the construction and ramp-up of our capacity since our inception, we incurred capital expenditures of US\$666 million, US\$190 million, and US\$728 million in 2008, 2009, and 2010 respectively. We depreciate our manufacturing machinery and equipment on a straight-line basis over an estimated useful life of five to seven years. We recorded depreciation of US\$761.8 million, US\$748.2, and US\$584.2 million in 2008, 2009, and 2010, respectively.

The semiconductor industry is also characterized by rapid changes in technology, frequently resulting in obsolescence of process technologies and products. As a result, our research and development efforts are essential to our overall success. We spent approximately US\$102.2 million in 2008, US\$160.8 million in 2009, and US\$174.9 million in 2010 for research and development, which represented 7.6%, 15.0%, and 11.2% respectively, of our sales for 2008, 2009, and 2010. Our research and development costs are partially offset by related government subsidies and include non-recurring engineering costs associated with the ramp-up of a new wafer facility.

We currently expect that our capital expenditures in 2011 will be approximately US\$1 billion, subject to adjustment based on market conditions, which we plan to fund through our operating cash flows and bank loans in order to expand our operations. If necessary, we will also explore other forms of external financing. In addition, our actual expenditures may exceed our planned expenditures for a variety of reasons, including changes in our business plan, our process technology, market conditions, equipment prices, or customer requirements. We will monitor the global economy, the semiconductor industry, the demands of our customers, and our cash flow from operations to adjust our capital expenditure plans.

Capacity Expansion

We have expanded, and plan to continue to expand, our capacity through internal growth and acquisitions. An increase in capacity may have a significant effect on our results of operations, both by allowing us to produce and sell more wafers and achieve higher sales, and as a cost component in the form of acquisition costs and depreciation expenses. We anticipate an increase to aggregate capacity by the end of 2011 subject to market conditions.

Pricing

We price our foundry services on either a per wafer or a per die basis, taking into account the complexity of the technology, the prevailing market conditions, the order size, the cycle time, the strength and history of our relationship with the customer, and our capacity utilization. Since a majority of our costs and expenses are fixed or semi-fixed, fluctuations in the average selling prices of semiconductor wafers have historically had a substantial impact on our margins. The average selling price of the wafers we shipped increased 0.6% from US\$778 per wafer in 2009 to US\$783 per wafer in 2010.

The following table sets forth a percentage breakdown of wafer sales by process technology for the years ended December 31, 2008, 2009 and 2010 and each of the quarters in the year ended December 31, 2010:

	For year ended	December	F	For the year ended December			
Process Technologies	2008	2009	March 31, 2010	June 30, 2010	30, 2010	31, 2010	31, 2010
Frocess reclinologies	2006	2009	2010		sales in US\$)	2010	2010
0.065 micron	0.01%	0.98%	1.70%	3.72%	7.08%	8.58%	5.43%
0.09 micron	17.60%	15.13%	18.66%	19.87%	16.19%	15.38%	17.44%
0.13 micron	26.29%	34.96%	35.52%	32.16%	32.95%	31.95%	33.08%
0.15 micron	2.70%	2.12%	1.50%	1.78%	2.34%	1.22%	1.71%
0.18 micron	34.10%	27.27%	24.16%	26.81%	25.60%	26.52%	25.81%
0.25 micron	0.60%	0.44%	0.26%	0.56%	0.51%	0.53%	0.47%
0.35 micron	18.70%	19.10%	18.20%	15.10%	15.33%	15.82%	16.06%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Change in Process Mix and Technology Migration

Because the price of wafers processed with different technologies varies significantly, the mix of wafers that we produce is among the primary factors that affect our sales and profitability. The value of a wafer is determined principally by the complexity of the process technology used to fabricate the wafer. In addition, production of devices with higher levels of functionality and greater system-level integration requires more fabrication steps, and these devices generally sell for higher prices.

Prices for wafers of a given level of technology generally decline over the relevant process technology life cycle. As a result, we and our competitors are continuously in the process of developing and acquiring advanced process technologies and migrating our customers to use such technologies to maintain or improve our profit margins. This technology migration requires continuous investment in research and development and technology-related acquisitions, and we expect to continue to spend a substantial amount of capital on upgrading our technologies.

Our initial sales after commencing commercial operations in 2002 consisted mainly of DRAM fabricated and sold on a foundry basis, as well as commodity-type DRAM fabricated using technology licensed from a third party and sold by us to distributors. During the first quarter of 2008, the Company reached an agreement with our customers to completely exit the commodity DRAM business. The conversion of DRAM capacity into logic production was completed on schedule in the fourth quarter of 2008. As a result, our Beijing 300mm logic capacity has placed us in a better position to serve our global and China customers. In connection with the decision to exit the commodity DRAM business, we recorded an impairment loss of \$105.8 million on long-lived assets during the first quarter of 2008.

The following table sets forth a breakdown of our sales by service type for 2008, 2009 and 2010:

	For the year ended December 31,										
	20	08	20	009	2010						
Service Type	Sales	Percentage	Sales	Percentage	Sales	Percentage					
		(in US	(in US\$ thousands, except percentages)								
Fabrication of memory											
wafers	71,935	5.30%	35,648	3.33%	20,592	1.32%					
Fabrication of logic											
wafers ⁽¹⁾	1,139,535	84.20%	959,689	89.66%	1,416,250	91.09%					
Other ⁽²⁾	142,241	10.50%	75,050	7.01%	117,947	7.59%					
T . 1	ф 1 252 7 11	100.000	1 070 207	100.00%	1.554.700	100.000					
Total	\$1,353,711	100.00%	1,070,387	100.00%	1,554,789	100.00%					

⁽¹⁾ Includes copper interconnects and memory devices whose manufacturing process is similar to that for a logic device.

(2) Includes mask-making and probing, etc.

Capacity Utilization Rates

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Operations at or near full capacity have a significant positive effect on our profitability because a substantial percentage of our cost of sales is of a fixed nature. In 2008, 2009 and 2010, approximately 46%, 49% and 40% respectively, of our cost of sales consisted of depreciation expenses, which are fixed costs. If we increase our utilization rates, the number of wafers we fabricate will increase, and therefore our average fixed costs per wafer will decrease. Therefore, our capacity utilization rates have a significant effect on our margins. Our utilization rates have varied from period to period due to capacity ramp-ups and fluctuations in customer orders. Our annual capacity utilization rate was 86.0% in 2008, 75.0% in 2009, and 95% in 2010. Factors affecting utilization rates are the overall industry conditions, the level of customer orders, the complexity of the wafers and of the mix of wafers produced, mechanical failures and other operational disruptions such as the expansion of capacity or the relocation of equipment, and our ability to manage the production facilities and product flows efficiently.

Our capacity is determined by us based on the capacity ratings for each piece of equipment, as specified by the manufacturers of such equipment, adjusted for, among other factors, actual output during uninterrupted trial runs, expected down time due to set up for production runs and maintenance, and expected product mix. Because these factors include subjective elements, our measurement of capacity utilization rates may not be comparable to those of our competitors.

Yield Rates

Yield per wafer is the ratio of the number of functional dies on that wafer to the maximum number of dies that can be produced on that wafer. A significant portion of our services, particularly our memory semiconductor wafer fabrication services, is priced on a per die basis.

We continuously upgrade the process technologies that we use. At the beginning of each technology migration, the yield utilizing the new technology is generally lower, sometimes substantially lower, than the yield under the then-current technology. This is because it requires time to stabilize, optimize and test a new process technology. We do not ship wafers to a customer until we have achieved that customer s minimum yield requirements. Yield is generally improved through the expertise and cooperation of our research and development personnel, process engineers, and equipment suppliers.

Critical Accounting Policies

The methods, estimates and judgments we use in applying our accounting policies have a significant impact on the results we report in our financial statements. Some of our accounting policies require us to make difficult and subjective judgments, often as a result of the need to make estimates of matters that are inherently uncertain. Below we have summarized our accounting policies that we believe are both important to the portrayal of our financial results and involve the need to make estimates about the effect of matters that are inherently uncertain. We also have other policies that we consider to be key accounting policies. However, these policies do not meet the definition of critical accounting estimates because they do not generally require us to make estimates or judgments that are difficult or subjective.

Please see Item 8 Financial Information Litigation regarding the Accounting Treatment for the 2005 and 2009 Settlement Agreements with TSMC.

Inventory

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Inventories are stated at the lower of cost or market. Market represents the net realizable value for finished goods and work-in-progress. Inventory cost is determined using standard cost and an allocation of the cost variances arising in the period of production, which approximates actual costs determined on the weighted average basis. We determine the standard cost of each wafer based on estimates of the materials, labor, and other costs incurred in each process step associated with the manufacture of our products. We allocate labor and overhead costs to each step in the wafer production process based on normal fab capacity, with costs arising from abnormal under-utilization of capacity expensed when incurred. The unit cost of a wafer generally decreases as fixed overhead charges, such as depreciation expense on the facility and semiconductor equipment, are allocated over a larger number of units produced.

We estimate the net realizable value for such finished goods and work-in-progress based primarily upon the latest invoice prices and current market conditions. If the market value of a good drops below its carrying value, we record a write-off to cost of sales for the difference between the carrying cost and the market value. During the years ended December 31, 2008, 2009 and 2010, the Company recorded inventory write downs of US\$40.8 million, US\$26.3 million and US\$19.9 million, respectively, to reflect a decline in the estimated market value of the inventory we held. We carry out an inventory review at each quarter-end.

Depreciation and Amortization

We operate in a capital-intensive business. We periodically review and assess the estimated useful life of our assets based on expected use by the Company, taking into account effects of obsolescence, demand, and other economic factors. The net book value of our plant and equipment, including prepaid land use rights, at December 31, 2010 was US\$2,430.7 million. Depreciation of manufacturing buildings and related improvements is provided on a straight-line basis over the estimated useful life of 25 years and commences from the date the facility is ready for its intended use. Depreciation of our manufacturing machinery and equipment, as well as our facility, machinery and equipment, is provided on a straight-line basis over the estimated useful life, commencing from the date that the equipment is placed into productive use. A 5 to 7 year useful life is used for manufacturing machinery and equipment while a 10 year useful life is used for facility, machinery and equipment. Amortization of land use rights is over the term of the land use right agreement, which ranges from 50 to 70 years. Amortization of intangible assets is computed using the straight-line method over the expected useful life of the assets ranging from 3 to 10 years. The estimated useful life and dates that the equipment is placed into productive use reflects our estimate of the periods that we intend to derive future economic benefits from the use of our plant and equipment and land use rights.

Long-lived Assets

The Company assesses the impairment of long-lived assets when events or changes in circumstances indicate that the carrying value of the assets or the asset group may not be recoverable. Factors that we consider in deciding when to perform an impairment review include, but are not limited to significant under-performance of a business or product line in relation to expectations, significant negative industry or economic trends, and significant changes or planned changes in our use of the assets. An impairment analysis is performed at the lowest level of identifiable independent cash flows for an asset or asset group. We make subjective judgments in determining the independent cash flows that can be related to specific asset group based on our asset usage model and manufacturing capabilities. We measure the recoverability of assets that will continue to be used in our operations by comparing the carrying value of the asset group to our estimate of the related total future undiscounted cash flows. If an asset group s carrying value is not recoverable through the related undiscounted cash flows, the impairment loss is measured by comparing the difference between the asset group s carrying value and its fair value, based on the best information available, including market prices or discounted cash flow analysis.

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In order to remain technologically competitive in our industry, we have entered into technology transfer and technology license arrangements with third parties in an attempt to advance our process technologies. The payments made for such technology licenses are recorded as an intangible asset or as a deferred cost and amortized on a straight-line basis over the estimated useful life of the asset. We routinely review the remaining estimated useful lives of these intangible assets and deferred costs. We also evaluate these intangible assets and deferred costs for impairment whenever events or changes in circumstances indicate that their carrying amounts may not be recoverable.

We have continued to construct, acquire, and expand our manufacturing facilities since our inception. We will continue to review impairment factors as described above and, as a result, impairment charges may be necessary in the future as circumstances change.

In 2010, the Company recorded an impairment loss of \$8.4 million associated with the disposal of fixed assets with outdated technologies.

In 2009, the effect of adverse market conditions and significant changes in the Company s operation strategy lead to the Company s identification and commitment to abandon a group of long-lived assets. This group of long-lived assets is equipped with outdated technologies and no longer receives vendor support. As of December 31, 2009, this group of assets ceased to be used. As a result, the Company recorded an impairment loss of \$104.7 million after writing down the carrying value of these assets to zero.

During the first quarter of 2008, the Company reached an agreement with our customers to completely exit the commodity DRAM business. The conversion of DRAM capacity into logic production was completed on schedule in the fourth quarter. As a result, our Beijing 300mm logic capacity has placed us in a better position to serve our global and China customers. In connection with the decision to exit the commodity DRAM business, we recorded an impairment loss of \$105.8 million on long-lived assets during the first quarter of 2008.

Income Taxes

Current income taxes are provided for in accordance with the laws of the relevant taxing authorities.

As part of the process of preparing financial statements, we are required to estimate our income taxes in each of the jurisdictions in which it operates. When we have net operating loss carry forwards or temporary differences in the amount of tax recorded for tax purposes and accounting purposes, we may be able to reduce the amount of tax that we would otherwise be required to pay in future periods. We recognize all existing future tax benefits arising from these tax attributes as deferred tax assets and then establish a valuation allowance equal to the extent, if any, that it is more likely than not that such deferred tax assets will not be realized. We record an income tax benefit or expense when there is a net change in our total deferred tax assets and liabilities in a period. The ultimate realization of the deferred tax assets depends upon the generation of future taxable income during the periods in which the net operating losses and temporary differences become deductible. We account for income taxes using the asset and liability method. We record a valuation allowance to reduce our deferred tax assets to the amount that we believe is more likely than not to be realized. In assessing the need for a valuation allowance, we consider all positive and negative evidence, including past performance, the general outlook of the semiconductor industry, business conditions caused by the global economic downturn, projected future taxable income and recent financial performance. Forming a conclusion that a valuation allowance is not required is difficult when there is negative evidence such as cumulative losses in recent years.

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Because the determination of the amount of valuation allowance is based, in part, on our forecast of future profitability, it is inherently uncertain and subjective. Changes in market conditions and our assumptions may cause the actual future profitability to differ materially from our current expectation, which may require us to increase or decrease the amount of valuation allowance that we have recorded.

The Company has no material uncertain tax positions as of December 31, 2010 or unrecognized tax benefit which would favorably affect the effective income tax rate in future periods. The Company classifies interest and/or penalties related to income tax matters in income tax expense. As of December 31, 2010, the amount of interest and penalties related to uncertain tax positions is immaterial. The Company does not anticipate any significant increases or decreases to its liability for unrecognized tax benefits within the next 12 months.

Revenue Recognition

We manufacture semiconductor wafers for our customers based on the customers—designs and specifications pursuant to manufacturing agreements and purchase orders. We also sell certain semiconductor standard products to customers. Customers do not have any rights of return except pursuant to warranty provisions, which returns have been minimal. We typically perform tests of our products prior to shipment to identify yield of acceptable products per wafer. Occasionally, product tests performed after shipment identify yields below the level agreed with the customer. In those circumstances, the customer arrangement may provide for a reduction to the price paid or for its costs to ship replacement products. We estimate the amount of sales returns and the cost of replacement products based on the historical trend of returns and warranty replacements relative to sales and any current information regarding specific customer yield issues that may exceed historical trends. We recognize revenue upon shipment and title transfer, if all other criteria have been met. We also provide certain services such as mask making and probing and revenue is recognized when our services are completed.

The Company provides management services to certain government-owned foundries. Service revenue is recognized when persuasive evidence of an arrangement exists, service has been performed, the fee is fixed or determinable, and collectability is reasonably assured.

Share-based Compensation Expense

Our share-based employee compensation plans are described in more detail under Share Ownership.

We grant stock options to our employees and certain non-employees. Share-based compensation cost is measured at the grant date, based on the fair value of the award, and is recognised, net of expected forfeitures, as an expense over the employee s requisite service period (generally the vesting period of the equity grant).

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The fair value of options and shares issued pursuant to our option plans at the grant date was estimated using the Black-Scholes option pricing model. This model was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. In addition, option-pricing models require the input of highly subjective assumptions, including the expected term of the options, the estimated forfeiture rates and the expected stock price volatility. The expected term of options granted represents the period of time that options granted are expected to be outstanding. We estimated forfeiture rates using historical data to estimate option exercise and employee termination within the pricing formula. We use projected volatility rates based upon the company s historical volatility rates. These assumptions are inherently uncertain. Different assumptions and judgements would affect our calculation of the fair value of the underlying ordinary shares for the options granted, and the valuation results and the amount of share-based compensation would also vary accordingly.

Income Tax

As an exempted company incorporated in the Cayman Islands, we are exempt from Cayman Islands taxation. Our Chinese subsidiaries are subject to taxation pursuant to Enterprise Income Tax Law and various local income tax laws. Under relevant regulations and after approval by the local Tax Bureau, our Shanghai, Beijing and Tianjin subsidiaries are entitled to a full exemption from foreign enterprise income tax, or FEIT, for five years starting with the first year of positive accumulated earnings, and a 50% reduction for the following five years. The tax holiday enjoyed by our Shanghai subsidiary took effect in 2004 when SMIS completed its first profit-making year. As of December 31, 2010, both Beijing and Tianjin entities were in accumulative loss positions and as a result the tax holiday had not begun to take effect.

Under the FEIT Laws, SMICD was qualified to enjoy a 5-year tax holiday (2-year full exemption followed by 3-year half reduction) subsequent to its first profit-making year after utilizing all prior tax losses or 2008 in accordance with the New EIT Law. SMICD was in a loss position and the tax holiday began as of December 31, 2008 at the statutory rate of 25%. The applicable income tax rate for 2010, 2011 and 2012 is 12.5%, and thereafter is 25%, respectively.

Our other subsidiaries are subject to their respective jurisdictions income tax laws, including Japan, United States, and Europe. Our income tax obligations to date have been minimal.

We account for income taxes using an asset and liability approach for financial accounting and reporting for income tax purposes. Under the asset and liability method, deferred income taxes are recognized for temporary differences, net operating loss carry-forwards and credits by applying enacted statutory tax rates applicable to future years. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. We conduct this analysis on a quarterly basis. As of December 31, 2010, the Company has recognized deferred tax assets including \$185.4 million from net operating loss carry forward and \$62.1 million from temporary difference between the tax and book base of certain fixed assets. The temporary difference generated from depreciation of fixed assets relates specially to one of the Company s subsidiaries and this subsidiary has achieved profitability in prior years and is expected to continue to be profitable based on the current forecast. We have recognized \$163.8 million valuation allowance based on the analysis on available positive and negative evidences, including profitability, utilization and production efficiency, industry cyclical risk and technology development risk.

Effective January 1, 2007, the Company prescribes a more-likely-than-not threshold for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. This interpretation also provides guidance on de-recognition of income tax assets and liabilities, classification of current and deferred income tax assets and liabilities, accounting for interest and penalties associated with tax positions, accounting for income taxes in interim periods and income tax disclosures.

The Company has no material uncertain tax positions as of December 31, 2010 or unrecognized tax benefit which would favorably affect the effective income tax rate in future periods. The Company classifies interest and/or penalties related to income tax matters in income tax expense. As of December 31, 2010, the amount of interest and penalties related to uncertain tax positions is immaterial. The Company does not anticipate any significant increases or decreases to its liability for unrecognized tax benefits within the next 12 months.

On March 16, 2007, the National People s Congress, the PRC legislature, approved and promulgated a new tax law named Enterprise Income Tax Law. On December 6, 2007, the PRC State Council issued the Implementation Regulations of the

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Enterprise Income Tax Law, both of which became effective on January 1, 2008. The Enterprise Income Tax Law and its Implementation Regulations, or the new EIT law, FIEs and domestic companies are subject to a uniform tax rate of 25%. The new EIT law eliminates or modifies most of the tax exemptions, reductions and preferential treatments available under the previous tax laws and regulations. The State Council issued the Notice of the State Council on the Implementation of the Transitional Preferential Policies in respect of Enterprise Income Tax on December 26, 2007, enterprises that were established before March 16, 2007 and already enjoy preferential tax treatments will (i) in the case of preferential tax rates, continue to enjoy the tax rates which will be gradually increased to the new tax rates within five years from January 1, 2008 or (ii) in the case of preferential tax exemption or reduction for a specified term, continue to enjoy the preferential tax holiday until the expiration of such term. Thus, SMIC Shanghai, SMIC Beijing and SMIC Tianjin could fall into condition (ii) and may be entitled to the five year exemption and five year reduction as subject to the final recognition by the PRC tax authorities. While the EIT Law equalizes the tax rates for FIEs and domestic companies, preferential tax treatment would continue to be given to companies in certain encouraged sectors and to entities classified as high and new technology enterprises companies supported by the PRC government, whether FIEs or domestic companies. According to the new EIT Law, entities that qualify as high and new technology enterprises especially supported by the PRC government are expected to benefit from a tax rate of 15% as compared to the uniform tax rate of 25%. Implementation Regulations of the Enterprise Income Tax Law, a high and new technology enterprise shall have core self-owned intellectual properties and its products shall be within the scope provided by the high-technology field highly supported by the State .

Under the new EIT law, dividends, interests, rent, royalties and gains on transfers of property payable by a foreign-invested enterprise in the PRC to its foreign investor who is a non-resident enterprise will be subject to a 10% withholding tax, unless such non-resident enterprise s jurisdiction of incorporation has a tax treaty with the PRC that provides for a reduced rate of withholding tax. The Cayman Islands, where SMIC is incorporated, does not have such a tax treaty with the PRC. If SMIC is considered a non-resident enterprise, this new 10% withholding tax imposed on SMIC s dividend income received from SMIC Shanghai, SMIC Beijing and SMIC Tianjin would reduce its net income and have an adverse effect on its operating results.

Under the new EIT law, an enterprise established outside the PRC with its de facto management body within the PRC is considered a resident enterprise and will be subject to the enterprise income tax at the rate of 25% on its worldwide income and foreign tax credit may be applicable. The de facto management body is defined as the organizational body that effectively exercises overall management and control over production and business operations, personnel, finance and accounting, and properties of the enterprise. It remains unclear how the PRC tax authorities will interpret such a broad definition. Substantially the majority of management members of SMIC are based in the PRC. If the PRC tax authorities subsequently determine that SMIC should be classified as a resident enterprise, then SMIC s worldwide income will be subject to income tax at a uniform rate of 25%, which may have a material adverse effect on SMIC s financial condition and results of operations. Notwithstanding the foregoing provision, the new EIT law also provides that, if a resident enterprise directly invests in another resident enterprise, the dividends received by the investing resident enterprise from the invested enterprise are exempted from income tax, subject to certain conditions. Therefore, if SMIC is classified as a resident enterprise, the dividends received from our PRC subsidiary may be exempted from income tax. However, it remains unclear how the PRC tax authorities will interpret the PRC tax resident treatment of an offshore company, like SMIC, having indirect ownership interests in PRC enterprises through intermediary holding vehicles.

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Foreign Currency Fluctuations

Our sales are generally denominated in U.S. dollars and our operating expenses and capital expenditures are generally denominated in U.S. dollars, Japanese Yen, Euros and Renminbi. Accordingly, we are affected by fluctuations in exchange rates between the U.S. dollar and each of the Japanese Yen, the Euro and the Renminbi. See Risk Factors Risks Related to Conducting Operations in China Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our operating results and Risk Factors - Risks Related to Our Financial Condition and Business Exchange rate fluctuations could increase our costs, which could adversely affect our operating results and the value of our ADSs for a discussion of the effects on our company of fluctuating exchange rates and Item 11 Quantative and Qualitative Disclosures About Market Risk Foreign Exchange Rate Fluctuation Risk for a discussion of our efforts to minimize such risks.

Recent Accounting Pronouncements

In April 2010, the FASB issued ASU 2010-17, Revenue Recognition Milestone Method (Topic 605). This guidance is to provide on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Research or development arrangements frequently include payment provisions whereby a portion or all of the consideration is contingent upon milestone events such as successful completion of phases in a study or achieving a specific result from the research or development efforts. Specifically, this guidance amends the affect vendors that provide research or development deliverables in an arrangement in which one or more payments are contingent upon achieving uncertain future events or circumstances. A vendor can recognize consideration that is contingent upon achievement of a milestone in its entirety as revenue in the period in which the milestone is achieved only if the milestone meets all criteria to be considered substantive should based on: (1) be commensurate with either of the following: (a) the vendor s performance to achieve milestone, (b) the enhancement of the value of the item delivered as a result of a specific outcome resulting from the vendor s performance to achieve the milestone; (2) relate solely to past performance; or (3) be reasonable relative to all deliverables and payment terms in the arrangement. In addition, a vendor that is affected by the amendments required to provide all of the following: (1) a description of the overall arrangement; (2) a description of each milestone and related contingent consideration; (3) a determination of whether each milestone is considered substantive; (4) the factors that the entity considered in determining whether the milestone or milestones are substantive; or (5) the amount of consideration recognized during the period for the milestone or milestones. This guidance is effective on a prospective basis for milestones achieved in fiscal years, and interim periods within those years, beginning on or after June 15, 2010. The adoption of ASU 2010-17 will not have a material impact on the Company s consolidated financial position or result of operations.

Incentives from the Chinese government

The chart below sets forth a brief summary of the material incentives received by our Chinese subsidiaries from the Chinese government. Our Shanghai, Beijing, and Tianjin subsidiaries are qualified as integrated circuit production enterprises under the Chinese government s *Several Policies to Encourage the Development of Software and Integrated Circuit Industry*. Under these policies, any company that engages in the semiconductor industry in China and has a total investment size in excess of 8,000 million Renminbi (approximately US\$964 million) and fabricates integrated circuits that have a linewidth of less than 0.25 micron are entitled to the last three benefits listed below. For a more detailed discussion of these incentives, see Item 4-Information on the Company-Regulation.

Incentive Preferential Value-added Tax Policies.	SMIC Shanghai, SMIC Beijing, and SMIC Tianjin 17% VAT rate.
	17% tax refund rate for exports reduced to 13% as of January 1, 2004.
	13% tax refund rate for exports increased to 17% as of November 1, 2004.
Preferential Enterprise Income Tax Policies	Five-year full exemption and five-year 50% reduction upon approval from the local tax bureau.
Preferential Customs Duties and Import-related VAT Policies	Exemption from customs duties with respect to its equipment, spare parts and raw materials.
	Exemption from import-related VAT with respect to its equipment, spare parts and raw materials.

Exemption from VAT for imported equipment will no longer applied as of July 1, 2009 and a 17% VAT rate will apply.

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Operating Results

Sales

We generate our sales primarily from fabricating semiconductors. We also derive a relatively small portion of our sales from the mask-making, wafer probing, and other services that we perform for third parties separately from our foundry services.

In 2010, fabless semiconductor companies accounted for 71.5%, IDMs accounted for 16.2% and systems and other companies accounted for 12.3%, respectively, of our sales. Although we are not dependent on any single customer, a significant portion of our net sales is attributable to a relatively small number of our customers. In 2008, 2009, and 2010 our five largest customers accounted for approximately 58.2%, 60.0%, and 53.7% of our sales, respectively. *Cost of sales*

Our cost of sales consists principally of:

depreciation and amortization;

overhead, including maintenance of production equipment, indirect materials, including chemicals, gases and various types of precious and other metals, utilities and royalties;

direct materials, which consist of raw wafer costs;

labor, including amortization of deferred stock compensation for employees directly involved in manufacturing activities; and

production support, including facilities, utilities, quality control, automated systems and management functions.

Our depreciation expenses attributable to cost of sales were US\$663.1 million in 2008, US\$575.1 million in 2009, and US\$497.6 million in 2010.

Operating expenses (income)

Our operating expenses (income) consist of:

Research and development expenses. Research and development expenses consist primarily of salaries and benefits of research and development personnel, materials costs, depreciation and maintenance on the equipment used in our research and development efforts, contracted technology development costs, and the costs associated with the ramp-up of new fabs but are partially offset by related government subsidies.

General and administrative expenses. General and administrative expenses consist primarily of salaries and benefits for our administrative, finance and human resource personnel, commercial insurance, fees for professional services, bad debt expenses, foreign exchange gains and losses from operating activities. Foreign exchange gains and losses relate primarily to period-end translation adjustments due to exchange rate fluctuations that affect payables and receivables directly related to our operations.

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Selling and marketing expenses. Selling and marketing expenses consist primarily of salaries and benefits of personnel engaged in sales and marketing activities, costs of customer wafer samples, other marketing incentives and related marketing expenses.

Amortization of acquired intangible assets. Amortization of acquired intangible assets consist primarily of the cost associated with the purchase of technology, licenses, and patent licenses.

Other income (expenses)

Our other income (expenses) consists of:

interest income, which has been primarily derived from cash equivalents and short-term investments and interest on share purchase receivables;

interest expenses, net of capitalized portions and government interest subsidies, which have been primarily attributable to our bank loans and the imputed interest rate on an outstanding interest-free promissory note; and

other income and expense items, such as those relating to the employee living quarters and school; and

foreign exchange gains and losses relating to financing and investing activities, including forward contracts.

Comparisons of Results of Operations

Consolidated Financial Data

The summary consolidated financial data presented below as of and for the years ended December 31, 2008, 2009, and 2010 are derived from, and should be read in conjunction with, and are qualified in their entirety by reference to, our audited consolidated financial statements, including the related notes, included elsewhere in this annual report. The summary consolidated financial data as of and for the years ended December 31, 2006 and 2007 is derived from our audited consolidated financial statements not included in this annual report. The summary consolidated financial data presented below has been prepared in accordance with U.S. GAAP.

	For the year ended December 31,							
	2006	2007	2008	2009	2010			
	(in US\$ thou	usands, except for	r share, ADS, per	centages, and op	erating data)			
Statement of Operations								
Data:								
Sales	\$1,465,323	\$1,549,765	\$1,353,711	\$1,070,387	\$1,554,788			
Cost of sales ⁽¹⁾	1,338,155	1,397,038	1,412,851	1,184,589	1,244,714			
Gross profit (loss)	127,168	152,727	(59,140)	(114,202)	310,074			
Operating expenses								
(income):								
Research and development	94,171	97,034	102,240	160,754	174,900			
General and administrative	47,365	74,490	67,037	218,688	43,762			
Selling and marketing	18,231	18,716	20,661	26,566	29,498			
Amortization of acquired								
intangible assets	24,393	27,071	32,191	35,064	27,168			

	For the year ended December 31,									
	2006	2007	2008	2009	2010					
	(in US\$ thous	ands, except for sh	are, ADS, percent	tages, and operatin	g data)					
Impairment loss of										
long-lived assets			106,741	138,295	8,442					
Loss (gain) from										
sale of plant and										
equipment and										
other fixed assets	(43,122)	(28,651)	(2,877)	3,832	(658)					
Litigation				260.625						
settlement				269,637						
Total operating	141 020	100.650	225 002	050.026	266 620					
expenses, net	141,038	188,659	325,993	852,836	266,620					
Income (loss) from	(12.970)	(25,022)	(205 122)	(067,029)	12 155					
operations Other income	(13,870)	(35,932)	(385,132)	(967,038)	43,455					
(expenses):										
Interest income	14,916	12,349	11,542	2,591	4,127					
Interest expense	(50,926)	(37,936)	(50,767)	(24,699)	(22,656)					
Change in the fair	(30,720)	(37,730)	(30,707)	(24,077)	(22,030)					
value of										
commitment to										
issue shares and										
warrants				(30,101)	(29,815)					
Foreign currency				(,,	(- , ,					
exchange gain										
(loss)	(21,912)	11,250	11,425	7,302	5,025					
Other, net	1,821	2,238	7,429	4,626	8,772					
Total other										
expense, net	(56,101)	(12,100)	(20,371)	(40,281)	(34,547)					
Income (loss)										
before income tax	(69,971)	(48,032)	(405,503)	(1,007,319)	8,907					
Income tax benefit										
(expense)	24,928	29,720	(26,433)	46,624	4,818					
Gain (loss) from	(4.004)	(4.040)	4446	(4.500)	•••					
equity investment	(4,201)	(4,013)	(444)	(1,782)	285					
Net income										
(loss) before										
cumulative effect										
of a change in accounting										
principle	(49,244)	(22,324)	(432,380)	(962,478)	14,011					
Cumulative effect	(47,244)	(22,324)	(432,300)	(702,470)	14,011					
of a change in										
accounting										
principle	5,154									
Net income (loss)	(44,090)	(22,324)	(432,380)	(962,478)	14,011					
(/	(19)	2,856	(7,851)	(1,060)	(1,060)					
		,		. , ,	(, - ,					

Accretion of interest to noncontrolling interest Loss attributable to noncontrolling interest Income (loss) attributable to Semiconductor Manufacturing										140
International Corporation	\$	(44,109)	¢	(19,468)	Φ	(440,231)	Ф	(963,537)	Φ	13,100
Earnings (loss) per ordinary share,	Ψ	(44,109)	Ψ	(19,400)	Ψ	(440,231)	Ψ	(903,337)	Ψ	13,100
basic	\$	(0.00)	\$	(0.00)	\$	(0.02)	\$	(0.04)	\$	0.00
Earnings (loss) per ordinary share,										
diluted	\$	(0.00)	\$	(0.00)	\$	(0.02)	\$	(0.04)	\$	0.00
Shares used in calculating basic earnings (loss) per share ⁽³⁾ Shares used in	18	8,334,498,923	1	8,501,940,489		18,682,544,866		22,359,237,084		24,258,437,559
calculating diluted earnings (loss) per share ⁽²⁾	18	8,334,498,923	1	8,501,940,489		18,682,544,866		22,359,237,084		25,416,597,405

	For the year ended December 31,								
	2006	2007	2007 2008		2009		2010		
	(in U	US\$ thousands, except for share, ADS, percentages, and operating data)							
Earnings (loss) per							•		
ADS, basic ⁽³⁾	\$ (0.	12) \$	(0.05)	\$	(1.18)	\$	(2.15)	\$	0.00
Earnings (loss) per									
ADS, diluted ⁽³⁾	\$ (0.	12) \$	(0.05)	\$	(1.18)	\$	(2.15)	\$	0.00
ADS used in									
calculating basic loss									
per ADS ⁽³⁾	366,689,9	78 37	0,038,810	373	,650,897	447	7,184,742	485,	168,751
ADS used in									
calculating diluted									
loss per ADS ⁽³⁾	366,689,9	78 37	0,038,810	373	,650,897	447	7,184,742	508,	331,948
Other Financial									
Data:									
Gross margin	8.	70%	9.90%		-4.40%		-10.67%		19.94%
Operating margin	-0.	90%	-2.30%		-27.80%		-90.05%		2.79%
Net margin	-3.	00%	-1.30%		-32.50%		-89.92%		0.90%
Operating Data:									
Wafers shipped (in 8 equivalents)									
Total	1,614,8	88	1,849,957	1	,611,208	1	1,376,663	1	985,974
ASP ⁽⁴⁾		07	838		840	-	778	1,	783
			300		3.0		. , 0		. 00

- (1) Including share-based compensation for employees directly involved in manufacturing activities.
- (2) Anti-dilutive preference shares, options and warrants were excluded from the weighted average ordinary shares outstanding for the diluted per share calculation. For 2006, 2007, 2008 and 2009 earnings (loss) per share did not differ from diluted loss per share.
- (3) Fifty ordinary shares equals one ADS.
- (4) Total sales/total wafers shipped.

Comparisons of the Years Ended December 31, 2008, 2009 and 2010

Year Ended December 31, 2010 Compared to Year Ended December 31, 2009

Sales. Sales increased by 45.3% from US\$1,070.4 million for 2009 to US\$1,554.8 million for 2010, primarily due to an increase in overall wafer shipments. For the full year 2010, the overall wafer shipments were 1,985,974 units of 8-inch equivalent wafers, up 44.3% year-on-year. The average selling price of the wafers the Company shipped increased by 0.6% from US\$778 per wafer to US\$783. Excluding DRAM revenue, the percentage of wafer revenues that used 0.13 micron and below process technology increased from 47.5% to 54.5% between these two periods.

Cost of sales and gross profit (loss). Cost of sales increased by 5.1% from US\$1,184.6 million for 2009 to US\$1,244.7 million for 2010. Out of the total cost of sales for 2010, US\$497.6 million was attributable to depreciation of plant and equipment and another \$2.8 million was attributable to amortization of deferred costs and share-based compensation costs. Out of the total cost of sales for 2009, US\$575.1 million was attributable to depreciation of plant and equipment and another \$23.5 million was attributable to amortization of deferred costs and share-based compensation costs. The Company had a gross profit of US\$310.1

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million for 2010 compared to a gross loss of US\$114.2 million in 2009. Gross margins were 19.9% in 2010 compared to (10.7)% in 2009. The increase in gross margins was due to higher overall wafer shipments in 2010 driven by the market recovery from the 2009 global recession and \$75.5 million decrease in depreciation expense.

Operating income (expenses) and income (loss) from operations. Operating expenses decreased by 68.7% from US\$852.8 million for 2009 to US\$266.6 million for 2010 primarily due to charges related to settlement of litigation, bad debt provision and plant and equipment impairment loss in 2009. We recorded litigation settlement expense, bad debt expense and impairment loss of US\$269.6 million, US\$115.8 million and US\$138.3 million, respectively, in 2009.

Research and development expenses increased by 8.8% from US\$160.8 million for 2009 to US\$174.9 million for 2010, due to an increase expenses associated with 65nm and 45nm technology development.

General and administrative expenses decreased by 80.0% to US\$43.8 million for 2010 from US\$218.7 million for 2009, primarily due to bad debt expenses of US\$115.8 million recorded in 2009.

Selling and marketing expenses increased by 11.1% from US\$26.6 million for 2009 to US\$29.5 million for 2010, due to an increase in sales and marketing activities.

The amortization of acquired intangible assets decreased from US\$35.1 million for 2009 to US\$27.2 million for 2010.

Impairment of plant and equipment. In 2010, the Company recorded an impairment loss of \$8.4 million associated with the disposal of fixed assets with outdated technologies compared to an impairment loss of \$104.7 million recorded in 2009 in connection with certain obsolete assets that were held to be abandoned. As a result, the Company s income from operations was US\$43.5 million in 2010 compared to loss from operations of US\$967.0 million in 2009. Operating margin was 1.4% and (90.3)%, for 2010 and 2009, respectively.

Other income (expenses). Other expenses decreased from US\$40.3 million in 2009 to US\$34.5 million in 2010. The foreign exchange gain, combining the operating and non-operating activities, was US\$5.0 million in 2010 as compared to US\$7.3 million in 2009.

Net income (loss). Due to the factors described above, the Company recorded a net income of US\$14.0 million in 2010 compared to a net loss of US\$962.5 million in 2009.

Year Ended December 31, 2009 Compared to Year Ended December 31, 2008

Sales. Sales decreased by 20.9% from US\$1,353.7 million for 2008 to US\$1,070.4 million for 2009, primarily due to a decrease in overall wafer shipments. For the full year 2009, the overall wafer shipments were 1,376,663 units of 8-inch equivalent wafers, down 14.6% year-on-year. The average selling price of the wafers the Company shipped decreased by 7.5% from US\$840 per wafer to US\$778. Excluding DRAM revenue, the percentage of wafer revenues that used 0.13 micron and below process technology increased from 38.2% to 44.2% between these two periods.

Cost of sales and gross profit. Cost of sales decreased by 16.2% from US\$1,412.9 million for 2008 to US\$1,184.6 million for 2009. Out of the total cost of sales for 2009, US\$575.1 million was attributable to depreciation of plant and equipment and another \$23.5 million was attributable to amortization of deferred costs and share-based compensation costs. Out of the total cost of sales for 2008, US\$663.1 million was attributable to depreciation of plant and equipment and another \$28.4 million was attributable to amortization of deferred costs and share-based compensation costs. The Company had a gross loss of

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US\$114.2 million for 2009 compared to a gross loss of US\$59.1 million in 2008. Gross margins were (10.7)% in 2009 compared to (4.4)% in 2008. The decrease in gross margins was due to market downturn experienced in the first quarter of 2009.

Operating expenses and loss from operations. Operating expenses increased by 161.6% from US\$326.0 million for 2008 to US\$852.8 million for 2009 primarily due to charges related to settlement of litigation.

Research and development expenses increased by 57.2% from US\$102.2 million for 2008 to US\$160.8 million for 2009. The Company received fewer government subsidies for research & development expenses in 2009 compared to 2008.

General and administrative expenses increased by 226.4% to US\$218.7 million for 2009 from US\$67.0 million for 2008, primarily due to an increase in bad debt provision, contingent liability and legal fees.

Selling and marketing expenses increased by 28.6% from US\$20.7 million for 2008 to US\$26.6 million for 2009, due to an increase in sales and marketing activities.

The amortization of acquired intangible assets increased from US\$32.2 million for 2008 to US\$35.1 million for 2009. Additional charges were recognized under operating expense in the fourth quarter of 2009, of which \$269.6 million was related to the settlement of litigation and \$138.3 million was related to long-lived asset impairment. The total amount of the settlement litigation charge including the portion classified under non-operating expense was \$299.7 million.

Impairment of plant and equipment. In 2009, the effect of adverse market conditions and significant changes in the Company s operation strategy lead to the Company s identification and commitment to abandon a group of long-lived assets. This group of long-lived assets is equipped with outdated technologies and no longer receives vendor support. As of December 31, 2009, this group of assets ceased to be used. As a result, the Company recorded an impairment loss of \$104.7 million after writing down the carrying value to zero.

As a result, the Company s loss from operations was US\$963.5 million in 2009 compared to loss from operations of US\$440.2 million in 2008. Operating margin was (90.3)% and (28.4)%, for 2009 and 2008 respectively.

Other income (expenses). Other expenses increased from US\$20.4 million in 2008 to US\$40.3 million in 2009 primarily due to a change in the fair value of the commitment to grant shares and warrants in the amount of \$30.1 million related to the litigation settlement. Total foreign exchange gain, combining the operating and non-operating activities, was US\$7.3 million in 2009 as compared to US\$11.4 million in 2008.

Net loss. Due to the factors described above, the Company recorded a net loss of US\$963.5 million in 2009 compared to a net loss of US\$440.2 million in 2008 attributable to ordinary shareholders.

Liquidity and Capital Resources

The following table sets forth a condensed summary of our audited statements of cash flows for the periods indicated:

	For the year ended December 31,					
	2008	2009	2010			
		(in US\$ thousands))			
Net cash provided by operating activities:						
Net income (loss)	\$(432,380)	\$(962,478)	\$ 14,011			
Depreciation	761,809	748,185	584,242			
Total	569,782	283,566	694,613			
Net cash used in investing activities:						
Purchase of property, plant and equipment	(669,055)	(217,269)	(491,539)			
Total	(761,713)	(211,498)	(583,713)			
Net cash provided by (used in) financing activities:						
Proceeds from short-term borrowings	422,575	726,897	716,676			
Proceeds from long-term debt	285,930	100,946	10,000			
Total	173,314	(78,902)	(37,851)			
Net increase (decrease) in cash and cash equivalents	\$ (19,054)	\$ (6,767)	\$ 72,346			
Operating Activities						

As of December 31, 2010, we had US\$515.8 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, European Euros, and Chinese Renminbi. Our net cash provided by operating activities in 2010 was US\$694.6 million, which was primarily due to the income attributable to holders of ordinary shares of US\$13.1 million, an increase of US\$19.7 million in inventories, an increase of US\$2.4 million in accounts receivable, an increase of US\$34.2 million in accounts payable relating to the purchase of materials and inventories, and the add-back of US\$584.2 million in depreciation and amortization relating to commercial production.

As of December 31, 2009, we had US\$443.5 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, European Euros, and Chinese Renminbi. Our net cash provided by operating activities in 2009 was US\$283.6 million, which was primarily due to the loss attributable to holders of ordinary shares of US\$963.5 million, an increase of US\$22.1 million in inventories, an increase of US\$95.4 million in accounts receivable, an increase of US\$35.8 million in accounts payable relating to the purchase of materials and inventories, and the add-back of US\$748.2 million in depreciation and amortization relating to commercial production.

As of December 31, 2008, we had US\$450.2 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, European Euros, and Chinese Renminbi. Our net cash provided by operating activities in 2008 was US\$569.8 million, which was primarily due to the loss attributable to holders of ordinary shares of US\$440.2 million, a decrease of US\$76.7 million in inventories, a decrease of US\$97.8 million in accounts receivable and an increase of US\$76.8 million in accounts payable relating to the purchase of materials and inventories, and the add-back of US\$761.8 million in depreciation and amortization relating to commercial production.

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Investing Activities

Our net cash used in investing activities was US\$583.7 million in 2010, US\$211.5 million in 2009, and US\$761.7 million in 2008. These amounts were primarily attributable to purchases of plant and equipment for our mega-fabs in Shanghai and Beijing, and Tianjin fab in these periods as well as costs associated with the Shanghai fab construction.

Financing Activities

Our net cash used in financing activities in 2010 was US\$37.8 million. This was primarily derived from US\$716.7 million in proceeds from short-term borrowings, US\$10.0 million in proceeds from long-term debt, US\$631.5 million in the repayment of short-term borrowings, US\$254.4 million in the repayment of long-term debt, US\$80.0 million in the repayment of promissory notes and US\$199 million in proceeds from issuance of ordinary shares.

Our net cash used in financing activities in 2009 was US\$78.9 million. This was primarily derived from US\$726.9 million in proceeds from short-term borrowings, US\$100.9 million in proceeds from long-term debt, US\$641.3 million in the repayment of short-term borrowings, and US\$241.7 million in the repayment of long-term debt.

Our net cash provided by financing activities in 2008 was US\$173.3 million. This was primarily derived from US\$422.6 million in proceeds from short-term borrowings, US\$285.9 million in proceeds from long-term debt, US\$328.3 million in the repayment of short-term borrowings, and US\$345.8 million in the repayment of long-term debt. In addition, US\$168.1 million came from proceeds from the issuance of ordinary shares. *Capital Expenditures*

We incurred capital expenditures of US\$666 million, US\$190 million and US\$728 million in 2008, 2009 and 2010, respectively. We currently expect our capital expenditures in 2011 to total approximately US\$1 billion, subject to adjustment based on market conditions. We have financed our substantial capital expenditure requirements through the proceeds received in our global offering, several rounds of private financing, cash flows from operations, and bank borrowings. In addition, once a fab is in operation at acceptable capacity and yield rates, it can provide significant cash flows.

Any transfer of funds from our company to our Chinese subsidiaries, either as a shareholder loan or as an increase in registered capital, is subject to registration or approval of Chinese governmental authorities, including the relevant administration of foreign exchange and/or the relevant examining and approval authority. In addition, it is not permitted under Chinese law for our Chinese subsidiaries to directly lend money to each other. Therefore, it is difficult to change our capital expenditure plans once the relevant funds have been remitted from our company to our Chinese subsidiaries. These limitations on the free flow of funds between us and our Chinese subsidiaries could restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

Our cash flows from operations have historically exceeded operating income, reflecting our significant non-cash depreciation expenses. Our operating cash flows may not be sufficient to meet our capital expenditure requirements in 2011. If our operating cash flows are insufficient, we plan to fund the expected shortfall through bank loans. If necessary, we will also explore other forms of external financing.

If the current economic or market conditions deteriorate, our business, financial condition and results of operations could be materially and adversely affected. Therefore there can be no assurance that our business will generate and continue to generate sufficient cash flow to fund our liquidity needs in the future as cash flow generation may be affected by, among other factors, sales levels, capacity utilization, industry business conditions as well as global economic conditions.

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Commitments

As of December 31, 2010, we had commitments of US\$83.0 million for facilities construction obligations for our Shanghai, Beijing, Tianjin, Chengdu, and Shenzhen facilities. The Company had commitments of US\$558.1 million to purchase machinery and equipment for Shanghai, Beijing, Shenzhen and Tianjin fabs.

For additional information, see Item 5 Operating and Financial Review and Prospects-Factors that Impact Our Results of Operations-Substantial Capital Expenditures and Capacity Expansion.

As of December 31, 2010, the Company s outstanding long-term liabilities primarily consisted of US\$512.0 million in secured bank loans, which are repayable in installments which commenced in June 2006, with the last payment due in December 2012.

2006 Loan Facility (SMIC Shanghai). In June 2006, Semiconductor Manufacturing International (Shanghai) Corporation (SMIC Shanghai) entered into a USD denominated long-term facility arrangement for US\$600.0 million with a consortium of international and PRC banks. The principal amount is repayable beginning December 2006 in ten semi-annual installments. The interest rate is variable and determined as LIBOR +1.00%. In August 2010, the facility was fully repaid.

2009 USD & RMB Loan Facility. In June 2009, SMIC Shanghai entered into the Shanghai USD & RMB loan, a two-year loan facility in the principal amount of US\$80 million and RMB200 million respectively with The Export-Import Bank of China. This facility is secured by the manufacturing equipment located in SMIC Shanghai s 12-inch fab. This two-year loan facility will be used to finance future expansion and general corporate needs for SMIC Shanghai s 12-inch fab. As of December 31, 2010, SMIC Shanghai had drawn down US\$80 million and RMB200 million (US\$29.4 million), respectively, on this loan facility. The principal amount is repayable in June 2011. In 2010, the interest rate on the loan ranged from 2.00% to 4.86%. The interest expense incurred in 2010 and 2009 was US\$3.6 million and US\$1.3 million, respectively, of which US\$1.1 million and US\$0.1 million were capitalized as additions to assets under construction in 2010 and 2009, respectively.

The total outstanding balance of the facilities is collateralized by certain equipment with an original cost of US\$366 million as of December 31, 2010.

2005 Loan Facility (SMIC Beijing). In May 2005, Semiconductor Manufacturing International (Beijing)
Corporation (SMIC Beijing) entered into a five year USD denominated loan facility in the aggregate principal amount of US\$600.0 million, with a syndicate of financial institutions based in the PRC. This five-year bank loan will be used to expand the capacity of SMIC Beijing s fabs. This facility is secured by the manufacturing equipment located in the SMIC Beijing 12-inch fabs. The Company has guaranteed SMIC Beijing s obligations under this facility. As of December 31, 2010, SMIC Beijing had repaid US\$309.0 million. On June 26, 2009, SMIC Beijing amended the syndicated loan agreement to defer the commencement of the three remaining semi-annual payments December 28, 2011. The amendment includes a provision for mandatory early repayment of a portion of the outstanding balance if SMIC Beijing s financial performance exceeds certain pre-determined benchmarks. The amendment has been accounted for as a modification as the terms of the amended instrument are not substantially different from the original terms. The interest rate on this loan facility in 2010 ranged from 2.64% to 2.95%. The interest expense incurred in 2010, 2009 and 2008 was US\$8.4 million, US\$10.2 million and US\$25.6 million, of which US\$2.8 million, US\$0.5 million and US\$1.6 million were capitalized as additions to assets under construction in 2010, 2009 and 2008, respectively.

The total outstanding balance of the SMIC Beijing USD syndicate loan is collateralized by certain plant and equipment with an original cost of US\$1,314 million as of December 31, 2010.

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Any of the following in respect of SMIC Beijing would constitute an event of default during the term of the loan agreement:

- 1. [Net profit + depreciation + amortization + financial expenses (increase of accounts receivable and advanced payments + increase of inventory increase in accounts payable and advanced receipts)]/ financial expenses <1; and
- 2. (Total liability borrowings from shareholders, including principal and interest)/Total assets > 60% (when SMIC Beijing s capacity is less than 20,000 12-inch wafers per month); and (Total liability borrowings from shareholders, including principal and interest)/Total assets > 50% (when SMIC Beijing s capacity exceeds 20,000 12-inch wafers per month).

SMIC Beijing has complied with these covenants as of December 31, 2010.

2005 EUR Loan Facility. On December 15, 2005, the Company entered into a EUR denominated long-term loan facility agreement in the aggregate principal amount of EUR85 million (equivalent to approximately US\$105 million) with ABN Amro Bank N.V. Commerz Bank N.V., Shanghai Branch. The draw down period of the facility ends on the earlier of (i) thirty six months after the execution of the agreement or (ii) the date which the loans have been fully drawn down. Each draw down made under the facility shall be repaid in full by the Company in ten equal semi-annual installments. SMIC Tianjin had drawn down in 2006 and SMIC Shanghai had drawn down in 2007 and 2008. As of December 31, 2010, SMIC Tianjin had drawn down EUR15.1 million, the interest rate on the loan ranged from 0.97% to 2.19%. The interest expenses incurred in 2010, 2009 and 2008 were US\$0.04 million, US\$0.2 million and US\$0.6 million of which nil, US\$0.03 million and US\$0.1 million were capitalized as additions to assets under construction in 2010, 2009 and 2008, respectively. As of December 31, 2010, the borrowing of SMIC Tianjin was fully repaid.

As of December 31, 2010, SMIC Shanghai had drawn down EUR56.9 million and repaid an aggregated amount of EUR37.7 million. As of December 31, 2010, the remaining balance was EUR19.2 million, the equivalent of US\$25.4 million. In 2010, the interest rate on the loan ranged from 0.99% to 2.58%. The interest expenses incurred in 2010, 2009 and 2008 were US\$0.6 million, US\$1.1 million and US\$2.1 million, of which US\$0.2 million, US\$0.03 million and US\$0.7 million were capitalized as additions to assets under construction in 2010, 2009 and 2008, respectively.

The total outstanding balance of the facility is collateralized by certain of SMIC Shanghai s equipment at the original cost of US\$115 million as of December 31, 2010.

2006 Loan Facility (SMIC Tianjin). In May 2006, Semiconductor Manufacturing International (Tianjin) Corporation (SMIC Tianjin) entered into a loan facility in the aggregate principal amount of US\$300.0 million from a consortium of Chinese banks. This facility is secured by the manufacturing equipment located in our Tianjin fab, except for the manufacturing equipment purchased using the EUR denominated loan. The Company has guaranteed SMIC Tianjin s obligations under this facility. As of December 31, 2010, SMIC Tianjin had drawn down US\$259 million from the facility. The principal amount is repayable starting from February 2010 in six semi-annual installments. As of December 31, 2010, SMIC Tianjin had early repaid US\$172.7 million. In 2010, the interest rate on the loan ranged from 1.69% to 2.00%. The interest expenses incurred for the years ended December 31, 2010, 2009 and 2008 were US\$2.3 million, US\$8.0 million and US\$9.1 million, of which US\$nil, US\$1.55 million and US\$1.8 million were capitalized as additions to assets under construction in 2010, 2009 and 2008, respectively.

The total outstanding balance of the facility is collateralized by certain plant and equipment with an original cost of US\$627 million as of December 31, 2010.

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Any of the following in respect of SMIC Tianjin would constitute an event of default during the term of the loan agreement:

- 1. [Net profit + depreciation + amortization + financial expenses (increase of accounts receivable and advanced payments + increase of inventory increase in accounts payable and advanced receipts)]/ financial expenses < 1; and
- 2. The ratio of total debt to total assets is more than 60% during the ramp up period of SMIC Tianjin and more than 40% after the facility is at full capacity.

SMIC Tianjin has complied with these covenants as of December 31, 2010.

Short-term Credit Agreements. As of December 31, 2010, the Company had twenty short-term credit agreements that provided total credit facilities up to US\$582.8 million on a revolving credit basis. As of December 31, 2010, the Company had drawn down US\$372.0 million under these credit agreements and US\$210.8 million was available for future borrowings. The outstanding borrowings under the credit agreements are unsecured, except for the amount of US\$13 million, which is secured by term deposits. The interest expense incurred in 2010 was US\$12.0 million. The interest rate on the loans ranged from 1.11% to 5.84% in 2010.

Please see Item 8 Financial Information-Dividends and Dividend Policy on our ability to pay dividends on our ordinary shares.

Please see Item 11 Quantitative and Qualitative Disclosures About Market Risk regarding the risk of loss related to adverse changes in market prices, including foreign currency exchange rates and interest rates of financial instruments.

Research and Development, Patents and Licenses, etc.

Our research and development activities are principally directed toward the development and implementation of more advanced and lower cost process technology. We spent US\$102.2 million in 2008, US\$160.8 in 2009 and US\$174.9 in 2010 on research and development expenses, which represented 7.6%, 15.0% and 11.2%, respectively, of our sales in those respective years. Our research and development costs were partially offset by related government subsidies of US\$56.2, US\$30.4 million and US\$12.0 million in 2008, 2009 and 2010 respectively and included non-recurring engineering costs associated with the ramp-up of a new wafer facility. We plan to continue to invest significant amounts in research and development in 2011 for our 65 and 45 nanometer manufacturing process.

The research and development efforts were focused primarily on our logic and system-on-chip (SOC) business. 2008 marked many milestones for SMIC. Early in the year, Synopsis and SMIC released an enhanced 90-nanometer hierarchical, multi-voltage RTL-to-GDSII reference design flow that will benefit advanced synthesis with built-in capability of design-for-test and design-for-manufacturing. In April 2008, working with a leading Chinese domestic fabless company, we developed a 90 nanometer digital photo frame chip, which is one of the most integrated multimedia SOC in the market. For advanced CMOS logic, the Company demonstrated a silicon success in our 45-nanometer process ahead of schedule, and also added new intellectual properties in 65 nanometer and 90 nanometer technology services. In addition, the Company successfully developed a 0.11 micron CMOS image sensor (CIS) process technology. In Non-Volatile Memory (NVM) technology, the 0.13um ETox went into production in early 2008 and 90nm ETox is currently in risk production. Our research and development in Micro-Electromechanical System (MEMS) areas also advanced to risk production for the first customer in 2008. Other areas of phase-change memory, HV, mix-signal-signal, and RF technologies were also successfully advanced for smaller size, less power, and lower cost to meet customer demands.

We employ approximately 451 research and development engineers. This research and development team includes many experienced semiconductor engineers with advanced degrees from leading universities around the world, as well as top graduates from the leading universities in China. We believe this combination has enabled us to quickly bring our technology in line with the semiconductor industry technology roadmap and ensures that we will have skilled personnel to lead our technology advancement in the future.

Trend Information

See Item 5 Operating and Financial Review and Prospects-Factors that Impact Our Results of Operations for a discussion of the most significant recent trends affecting our operations.

Off-Balance Sheet Arrangements

We have not entered into any off-balance sheet transactions.

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Tabular Disclosure of Contractual Obligations

Set forth in the table below are the aggregate amounts, as of December 31, 2010, of our future cash payment obligations under our existing debt arrangements on a consolidated basis:

	Payments due by period Less than 1								
Contractual obligations	Total	year	1 - 3 years	3 - 5 years	years				
	(consolidated, in US\$ thousands)								
Short-Term Borrowings ⁽¹⁾	\$ 372,055	\$ 372,055	\$	\$	\$				
Secured long-term loans ⁽¹⁾	512,055	333,459	178,596						
Interest payments ⁽²⁾	26,523	21,165	5,358						
Operating Lease obligations ⁽³⁾	6,362	1,231	584	604	3,979				
Purchase Obligations ⁽⁴⁾	641,076	641,076							
Other Long-Term Obligations ⁽⁵⁾	90,717	34,390	28,560	27,767					
Total Contractual Obligations	\$1,648,788	\$1,403,376	\$213,098	\$28,371	\$3,979				

- (1) These amounts represent outstanding borrowings. Refer to F-29, Indebtedness , for a description of the short-term and long-term borrowings.
- (2) These amounts represent estimated interest payments on short-term borrowings and long-term debts. The estimated interest payments are based on the weighted average interest rates incurred during the year ended December 31, 2010, ranging between 1.82% and 2.86%.
- (3) Represents our obligations to make lease payments to use the land on which our fabs are located in Shanghai and other office equipment we have leased.
- (4) Represents commitments for construction or purchase of semiconductor equipment, and other property or services.

(5) Includes the remaining installment payments relating to the settlement with TSMC.

Item 6. Directors, Senior Management and Employees

Directors and Senior Management

Members of our board of directors are elected by our shareholders. As of May 31, 2011, our board of directors consists of seven directors.

Our executive officers are appointed by, and serve at the discretion of, our board of directors. The following table sets forth the names, age and positions of our directors and executive officers as of May 31, 2011.

Name	Age	Position
Directors		
Jiang Shang Zhou	64	Chairman, Independent Non-Executive Director
David N. K. Wang	64	President, Chief Executive Officer and Executive Director
Chen Shanzhi	42	Non-Executive Director
Gao Yonggang	46	Non-Executive Director
Zhou Jie	43	Non-Executive Director
Tsuyoshi Kawanishi	82	Independent Non-Executive Director
Lip-Bu Tan	51	Independent Non-Executive Director
Senior Managers		
Chris Chi	59	Chief Business Officer
Simon Yang	51	Chief Operating Officer
Gary Tseng	54	Chief Financial Officer
Barry Quan	59	Chief Administrative Officer
Anne Chen	49	Company Secretary, Hong Kong Representative and Chief
		Compliance Officer
Zhou Mei Sheng	53	Vice President of Technology Research and Development
John Peng	46	Associate Vice President and General Manager of China BU
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Jiang Shang Zhou

Chairman of the Board, Independent Non-executive Director

Dr. Jiang Shang Zhou has been a Director since 2006 and is currently the Chairman of the Board. Dr. Jiang is also a director of certain of our subsidiaries. Dr. Jiang is the Chairman of China Semiconductor Industry Association, a committee member of the Shanghai Municipal Advisory Committee for Decision making. Dr. Jiang was also the deputy secretary general of Shanghai Government, a director of Committee for Friendship with Foreign Countries of Shanghai Political Consultative Conference, an officer of and a director commissioner of Shanghai State Owned Assets Placing and Investment Committee officer of the Shanghai Chemical Industrial District Lender Team Officer, officer of Shanghai International Automobile City Leader Team Office and officer of the Shanghai Fuel Cell Electric Vehicles (863 major project) Leader Team Office. Dr. Jiang received his bachelor s degree from Tsinghua University in telecommunications and his master s and doctorate degree in information technology from the department of electrical engineering of the Swiss Federal Institute of Technology Zurich Communication System Group.

David N.K. Wang

President, Chief Executive Officer and Executive Director

Dr. David N.K. Wang joined SMIC as President, CEO, and Executive Director in November 2009. He also is a director of almost all of the Group subsidiaries. A well known executive with extensive experience in the global semiconductor industry, Dr. Wang previously was CEO of Huahong (Group) Co., Ltd. and Chairman of Huahong NEC, a subsidiary of Huahong Group between 2005 and 2007. Prior to this, Dr. Wang was the Executive Vice President of Applied Materials and President of Applied Materials Asia, where he was responsible for Applied Materials business strategy, planning, and execution throughout Asia with a particular focus on building infrastructure worldwide. Before joining Applied Materials, Dr. Wang conducted research and made a number of key breakthroughs in semiconductor technology at Bell Laboratories. A recipient of the SEMI Lifetime Achievement Award, Dr. Wang authored and co-authored over 100 patents and co-developed the Precision 5000, one of the industry s most successful products and part of the permanent collection of the Smithsonian Institution in Washington, D.C. Dr. Wang also is a member of the Board of Directors of the Global Semiconductor Alliance (GSA). He received his Ph.D. in Materials Science and Engineering from the University of California, Berkeley.

Chen Shanzhi

Non-executive Director

Dr. Chen Shanzhi has been a Director since 2009. Dr. Chen is currently the SVP, CTO and CIO of China Academy of Telecommunications Technology (Datang Telecom Technology & Industry Group). He is also the Senior Vice President of Datang Telecom Technology & Industry Holdings Co. Ltd., where he is responsible for strategy development, industrial planning, technology and standard development, corporate IT, and strategic alliances and cooperation. Dr. Chen is a member of the expert group of the Information technology of the National High Technology Research and Development Program of China (863 Program). Dr. Chen received his Bachelor degree from Xidian University, Master degree from China Academy of Posts and Telecommunications of Ministry of Posts and Telecommunications and Ph. D. from Beijing University of Posts and Telecommunications. Dr. Chen has 20 years of experience in the field of information and communication technology where he has been involved in research and development, technology and strategy management. He has published a book and nearly 100 papers in the domestic and foreign academic conferences and publications, most of which were published by SCI and EI and many of his papers have received awards. At present, he has applied for 10 national invention patents.

Gao Yonggang

Non-executive Director

Mr. Gao Yonggang has been a Director since 2009, and is also a director of several subsidiaries of the Company. Mr. Gao is currently the Chief Financial Officer of China Academy of Telecommunications Technology (Datang Telecom Technology & Industry Group) and the chairman of Datang Capital (Beijing) Co., Ltd. and the executive director of Datang Hi-Tech Venture Capital Investment Co., Ltd. He is also a director and the Senior Vice President of Datang Telecom Technology & Industry Holdings Co., Ltd., a managing director of the China Accounting Society, and a member of the Central Enterprise Youth Federation. Mr. Gao has more than 20 years of experience in the area of financial management and has worked as Chief Financial Officer or person in charge of finance in various industries such as retail, industrial, municipal utilities, and many different type of firms like state-owned enterprises, private, joint venture enterprises, government agencies. In November 2004, he was appointed as the Chief Financial Officer of China Academy of Telecommunications Technology by the State-owned Assets Supervision and Administration Commission. Graduated from Nankai University as a Ph.D. of management, Mr. Gao has in-depth studies in the field of financial investment where he has been involved in a number of key research projects and has many publications in these areas.

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Zhou Jie

Non-executive Director

Mr. Zhou Jie has been a Director since 2009. Mr. Zhou is an executive director and the executive vice president of Shanghai Industrial Investment (Holdings) Co. Ltd. (SIIC), an executive director and the executive deputy CEO of Shanghai Industrial Holdings Limited (SIHL) and the Chairman of SIIC Investment (Shanghai) Co., Ltd.. He is also a director of certain subsidiaries of SIIC and SIHL. Mr. Zhou graduated from Shanghai Jiaotong University with a master s degree in management science and engineering. He is currently a non-executive director of Shanghai Fudan-Zhangjiang Bio-Pharmaceutical Co. Ltd., and the chairman of the supervisory committee of Shanghai Pharmaceuticals Holdings Co., Ltd.. He was the deputy general manager of the investment banking head office of Shanghai Wanguo Holdings Ltd. (now Shenyin & Wanguo Securities Co. Ltd.) and had held the positions of the chairman and general manager of Shanghai S.I. Capital Co. Ltd. He has over 10 years experience in investment banking and capital market operation.

Tsuyoshi Kawanishi

Independent Non-executive Director

Mr. Tsuyoshi Kawanishi has been a Director since 2001 and is also a director of a subsidiary of the Company. Mr. Kawanishi has more than 50 years of experience in the electronics industry with Toshiba Corporation, where he served as, among other positions, senior executive vice president and senior advisor. Mr. Kawanishi is an advisor to Accenture Ltd. and a number of private companies. Mr. Kawanishi has been proactively leading the semiconductor industry through his strong leadership as an advisor to the Semiconductor Equipment and Materials International (SEMI).

Lip-Bu Tan

Independent Non-executive Director

Mr. Lip-Bu Tan has been a Director since 2002 and is also a director of a subsidiary of the Company. Mr. Tan is the Founder and Chairman of Walden International, a leading venture capital firm managing over US\$1.9 billion in committed capital. He concurrently serves as President and Chief Executive Officer of Cadence Design Systems, Inc., and has been a member of the Cadence Board of Directors since 2004. He also serves on the Boards of Flextronics International (NASDAQ: FLEX), SINA (NASDAQ: SINA), Inphi (NYSE: IPHI), Global Semiconductor Alliance and several other private companies. Mr. Tan received his B.S. from Nanyang University in Singapore, his MBA from the University of San Francisco, and his M.S. in Nuclear Engineering from the Massachusetts Institute of Technology.

Senior Management

Chris Chi, Chief Business Officer

Prior to joining the Company as Chief Business Officer, Mr. Chi was a consultant for CSquare Consulting. Mr. Chi first joined SMIC in 2008 as Senior Vice President of Corporate Marketing & Sales. From 1981 to 2007, he held management positions with TPO Corporation, Freescale Semiconductor, UMC Europe, UMCi Ltd. Singapore, UMC, Chartered Semiconductor Manufacturing Ltd., and Rockwell International Corporation. Mr. Chi is a Ph.D. candidate in Materials Science and he received his master s degree in Materials Engineering from the University of California, Los Angeles. With more than 30 years of experience in the semiconductor industry, Mr. Chi is the holder of 5 patents.

Simon Yang, Chief Operating Officer

Prior to joining the Company as Chief Operating Officer in 2010, Dr. Yang was the Chief Technology Officer and Senior Vice President of Operations of Chartered Semiconductor. He first joined SMIC in 2001 as the Vice President of Technology Development and Senior Vice President of Technology and Manufacturing of the Company. From December 2004 to September 2005, he was the Chief Executive Officer and President of CiWest Corporation. Dr. Yang received his PhD in Material Engineering and Master of Science in Physics from Rensselaer Polytechnic Institute, also, he received his Bachelor of Science in Electrical Engineering from Shanghai University of Science and Technology. With more than 20 years of experience in the semiconductor industry, Dr. Yang is a holder of more than of 20 patents and published more than 30 technical articles.

Gary Tseng, Chief Financial Officer

Prior to joining the Company in 2010 as Chief Financial Officer, in 2008, Mr. Tseng was the Chief Operating Officer at China Solar Corporation, a thin-film solar manufacturing start-up company in Shandong, China. From 2004 to 2005, he founded the Digital Display Manufacturing Co., a plasma display manufacturing start- up company in Shanghai and he was the Chief Executive Officer. From 1999 to 2003, Mr. Tseng was the Chief Investment Officer and Senior Vice President of Quanta Computer Company. From 1997 to 1998, he was the Chief Financial Officer and Senior Vice President of United Microelectronics Corporation. From 1991 to 1997, he was the Chief Financial Officer and Senior Vice President of Taiwan Semiconductor Manufacturing Company Limited. From 1983 to 1991, Mr. Tseng held management positions as Finance Manager at Philips Taiwan Limited and Corporate Treasurer for all the Philips companies in Taiwan. In addition, he was the Fab Accounting Manager for Philips Semiconductor operation in USA and Philips Semiconductor packaging operation in Taiwan. Mr. Tseng received his Master of Business Administration from University of Missouri- Columbia, Missouri in the United States of America and his Bachelor of Science in Accounting from National Cheng-Kong University in Taiwan. In addition, Mr. Tseng is a Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor in the USA.

Barry Quan, Chief Administrative Officer

Barry Quan joined SMIC in 2010. Prior to joining the company as Senior Vice President and Chief Administrative Officer Mr. Quan was a Corporate Vice President at Applied Materials and President of Applied Materials China Holding Company. From November 2005 to 2006, he worked in Huahong Group as Chief Administrative Officer. Prior to Huanghong, Mr. Quan was a Corporate Vice President of Legal Affairs at Applied Materials and was also Applies s first Ombudsman.

Anne Chen, Company Secretary and Chief Compliance Officer

Ms. Chen joined the Company in 2001 and is the Company s Hong Kong Representative, Company Secretary and Chief Compliance Officer. Ms. Chen is admitted as a solicitor in Hong Kong, England and Wales and Australia and was admitted as an advocate and solicitor in Singapore. She had served as a deputy adjudicator of the Small Claims Tribunal in Hong Kong in 1999 and has served as the President of the Hong Kong Federation of Women Lawyers from 2000 to 2002 and since 2008. Prior to joining the Company in 2001, she had been a practicing solicitor in Hong Kong since 1987. Ms. Chen is active in serving the community and has been awarded by the Law Society of Hong Kong the Pro Bono Distinguished Service Award in 2011.

Zhou Mei Sheng, Vice President of Technology and Operations Office

Dr. Zhou joined SMIC in 2010 as Vice President. She leads research and development of advanced technologies in the company. Dr. Zhou also serves as Director for the United Lab Center which is a joint R&D platform between SMIC, universities & research

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institutes. Prior to joining the SMIC, Dr. Zhou was a Senior Director of Advanced Module Technology Development of Chartered Semiconductor (later GlobalFoundries) for 5 years.

From 1994 to 2004, she held a number of management positions in Chartered, TSMC, and UMC sequentially in the areas of semiconductor technology development and Fab operation. Dr. Zhou obtained Ph.D. degree in Chemistry from Princeton University, USA and MSc & BSc degrees from Fudan University, China. In the earlier part of her professional career, she lectured and/or conducted researches in some distinguished universities like Fudan University of China, Rochester University of USA and National University of Singapore. Dr. Zhou holds more than 125 US patents, and authored or co-authored over 40 technical papers.

John Peng, Associate Vice President and General Manager of China BU

Mr. Peng first joined SMIC in 2001 and is currently General manager of China Business Unit. Prior to joining SMIC, he was Sr. Operation Director of Wuxi CSMC-HJ Semiconductor Company Limited and was responsible for Fab, PC&MC, Facility and IT. He was also deputy general manager & Fab director in Huajing MOS BU, responsible for China national 908 project AT&T (Lucent) technology transfer and built China most advanced 6 fab in 1996. He also published more than 10 technical articles.

He received his Bachelor s degree in Physics from Sichuan University. He is a Ph.D. candidate in Microelectronics of Southeast University and he received his master s degree in Microelectronics from Xidian University in 1988.

Except as described below in Item 10 Additional Information Material Contracts Share Purchase Agreement with Datang and Item 10 - Additional Information - Material Contracts - Subscription Agreement with Country Hill Limited , no shareholder has a contractual right to designate a person to be elected to our board of directors.

There are no family relationships among any of our directors and executive officers.

Director and Executive Compensation

The aggregate cash compensation that we paid to all of our executive officers as of December 31, 2010 for services rendered to us and our subsidiaries during 2010 was approximately US\$1,654,376. Details of the emoluments paid or payable by the Company to our directors, including David N.K. Wang, our president, chief executive officer and executive director, in 2010 are set out as below:

	David N.K.	Chen	Gao	Zhou	Tsuyoshi	Lip-Bu	Jiang	
			Yong				Shang	
	Wang	Shanzhi	Gang	Jie	Kawanishi	Tan	Zhou	Total
	(* TIG6)	(' TIGA)	(: TIGO)	(in	(; TIGO)	(* TTG(b)	(* TTG#)	(; IIGA)
	(in US\$)	(in US\$)	(in US\$)	US\$)	(in US\$)	(in US\$)	(in US\$)	(in US\$)
Salaries and								
other benefits ¹	\$ 344,264	\$ 45,000	\$ 45,000	\$	\$ 45,000	\$ 60,000	\$ 180,000	\$ 719,264
Discretionary								
bonus ^{2 3}	\$ 225,923	\$	\$	\$	\$	\$	\$	\$ 225,923
Stock Option								
Benefits ⁴	\$ 1,099,719	\$ 14,569	\$ 14,569	\$	\$ 28,518	\$ 28,518	\$ 254,092	\$ 1,439,985
Total	\$ 1,669,906	\$ 59,569	\$ 59,569	\$	\$ 73,518	\$ 88,518	\$ 434,092	\$ 2,385,172

Note:

- 1. David N.K. Wang s salaries and other benefits in 2010, include 2 months of service since joining the Company in November 2009 which was paid in 2010.
- 2. David N.K. Wang is entitled to a performance bonus of 75% of his annual salary, payable if and when the Company achieves profitability over one fiscal year.
- 3. David N.K. Wang s discretionary bonus will be paid in 2011.

4. On February 23, 2010, Dr. Wang was granted an option to purchase 62,697,553 ordinary shares at a price of HK\$0.77 per ordinary share, and an award of 26,870,379 Restricted Share Units. None of these awards had been vested as of December 31, 2010. Expenses recognized by the Company during the year ended December 31, 2010 in accordance with U.S.GAAP do not represent the actual benefits received by the recipient in 2010. The individual actual benefits to be realized upon exercise could be more or less than the accounting expenses recognized by the Company as stated above.

We do not provide pension, retirement or similar benefits to our executive officers and directors except statutorily required benefits.

In 2010, we have granted options to purchase an aggregate of 157,016,532 ordinary shares under our 2004 Stock Option Plan and awarded an aggregate of 62,022,666 restricted share units under our 2004 Equity Incentive Plan to certain of our executive officers and directors. Both our 2004 Stock Option Plan and the 2004 Equity Incentive Plan are described below. The exercise price of the options granted to our executive officers in 2010 to purchase ordinary shares under the 2004 Stock Option Plan range from US\$0.082 to US\$0.099 per share. The expiration dates of these options range from February 22, 2020 to May 23, 2020.

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On April 25, 2004, the compensation committee approved a profit-sharing plan for the benefit of our employees, including our executive officers. Under our profit-sharing plan, a participant who is an employee of the company at the end of a fiscal quarter will be eligible to receive a percentage of our profits for that quarter. No compensation was received by our executive officers in 2008, 2009 and 2010 as a result of their participation in this plan.

Board Practices

Board of Directors

Our board of directors consists of seven directors, Wang Zheng Gang, a former alternate director of Zhou Jie, resigned effective February 14, 2011. Directors may be elected to hold office until the expiration of their respective terms upon a resolution passed at a duly convened shareholders meeting by holders of a majority of the Company s issued shares being entitled to vote in person or by proxy at such meeting. The Board is divided into three classes with one class of Directors eligible for re-election at each annual general meeting of shareholders, or AGM. Each class of Directors will serve a term of three years. The Class I Directors will hold office until the 2011 annual general meeting of the Company. The Class II Directors will hold office until the 2012 annual general meeting of the Company. The Class III Directors were re-elected at the 2010 AGM for a term of three years to hold office until the 2013 annual general meeting of the Company.

The following table sets forth the names and classes of our current directors:

Class I