CMS ENERGY CORP

Form 4 May 20, 2008

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * WAY KENNETH L			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			CMS ENERGY CORP [CMS]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
			(Month/Day/Year)	Director 10% Owner			
ONE ENERGY PLAZA			05/16/2008	Officer (give title below) Other (specify below)			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
			·	_X_ Form filed by One Reporting Person			
JACKSON, I	MI 49201			Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Table I New Desiration Committee A	and Discount of an Daniel State O			

(City)	(State)	Table	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed of	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securi on(A) or Di (Instr. 3,	spose	d of (D)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		, ,
Common Stock	05/16/2008	05/16/2008	A(1)	2,955	A	\$ 15.23	51,278	D (2)	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1.	Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Title a	ınd	8. Price of	9. Nu
D	erivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	ate	Amount	of	Derivative	Deriv
S	ecurity	or Exercise		any	Code	of	(Month/Day/	Year)	Underlyi	ng	Security	Secui
(I	nstr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Securitie	s	(Instr. 5)	Bene
		Derivative				Securities	S		(Instr. 3 a	and 4)		Own
		Security				Acquired						Follo
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							Exercisable	Date	or			
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									of			
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Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

WAY KENNETH L ONE ENERGY PLAZA JACKSON, MI 49201

Signatures

Catherine M. Reynolds, Attny-in-Fact

05/20/2008

Date

**Signature of Reporting Person

Explanation of Responses:

- If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- Grant of CMS Common Stock to each non-employee member of the Board of Directors pursuant to the Corporation's Performance **(1)** Incentive Stock Plan, and subject to a three-year "cliff" vesting schedule.
- Total holdings reflect an adjustment of 289 shares of CMS Common Stock purchased by the Corporation on my behalf as a result of my participation in the Corporation's dividend reinvestment plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. "2" COLOR="#000000"> Ratio of earnings to fixed charges(4)

13.4

12.7

16.3

Reporting Owners 2

	29.3
	3.8
Dividends per share(3)	
\$	
\$	
\$	0.03
\$	0.03
\$	0.04

Consolidated Balance Sheet Data (end of period):					
Cash, cash equivalents and marketable securities(1)	\$ 702.2	\$ 1,100.7	\$ 1,823.1	\$ 2,330.9	\$ 2,444.2
Working capital(5)	443.5	855.1	398.5	372.5	555.4
Total assets	5,445.7	6,434.0	7,930.3	11,880.5	10,797.5
Short-term debt (including current portion of long-term					
debt)	424.6	191.2	123.2	141.6	129.3
Long-term debt (excluding current portion)(1)	356.4	755.8	1,348.5	2,700.5	2,771.5
Shareholders equity(1)	3,307.4	4,083.3	4,563.9	6,124.6	6,074.7
Capital stock(6)	2,004.9	2,232.3	2,508.0	2,823.6	2,978.3
Consolidated Operating Data:					
Capital expenditures(7)	\$ 1,035.4	\$ 947.3	\$ 1,347.5	\$ 3,327.5	\$ 1,699.8
Net cash provided by operating activities	983.8	1,012.5	1,469.3	2,422.8	2,052.0
Depreciation and amortization(7)	608.1	704.0	806.8	1,108.2	1,320.2

- (1) On November 16, 2000, we issued \$1,480.0 million initial aggregate principal amount of zero-coupon unsubordinated convertible notes, due 2010, for net proceeds of \$1,457.8 million. On September 22, 1999, we completed an equity offering of 8,970,000 shares of capital stock at \$24.88 per share (adjusted for the 3-for-1 stock split) for net proceeds of \$216.8 million. On September 22, 1999, we also completed a debt offering of \$720.9 million initial aggregate principal amount of zero-coupon convertible Liquid Yield Option Notes, due 2009, for net proceeds of \$708.3 million. On June 10, 1998, we completed an equity offering of 18,000,000 shares of capital stock at \$12.03 per share (adjusted for the 2-for-1 stock split in June 1999 and 3-for-1 stock split in May 2000) for net proceeds of \$208.8 million. On June 10, 1998, we also completed a debt offering of \$431.7 million initial aggregate principal amount of zero-coupon convertible Liquid Yield Option Notes (LYONs), due 2008, for net proceeds of \$421.8 million. On April 27, 2001, we issued a redemption notice for the remaining outstanding LYONs, due 2008, which were redeemed and converted into common shares in May and June 2001; the residual aggregate principal amount converted into common shares was \$51.7 million. In 2001, we repurchased 9,400,000 common shares for \$233.3 million and we have reflected these purchases at cost as a reduction of shareholders equity. The repurchased shares have been designated to fund our most recent employee stock option plan.
- (2) Other income and expenses includes, among other things, funds received through government agencies for research and development expenses, the cost of new plant start-ups, foreign currency gains and losses, gains on sales of marketable securities, the costs of certain activities relating to intellectual property and goodwill amortization. Our reported research and development expenses do not include design center, process engineering, pre-production or industrialization costs.
- (3) All share information has been adjusted to reflect the 2-for-1 stock split effected in June 1999 and the 3-for-1 stock split effected in May 2000. See Notes 2.10, 2.20 and 13 to the Consolidated Financial Statements.
- (4) For purposes of calculating the ratio of earnings to fixed charges, earnings consist of income before income taxes and minority interests, plus fixed charges. Fixed charges consist of interest expenses.
- (5) Working capital is calculated as current assets (excluding cash, cash equivalents and marketable securities) less current liabilities (excluding bank overdrafts and current portion of long-term debt).
- (6) Capital stock consists of common stock and capital surplus.
- (7) Capital expenditures are net of certain funds received through government agencies, the effect of which is to decrease depreciation.

RISK FACTORS

Risks related to the semiconductor industry

The semiconductor industry is highly cyclical, and severe downturns have had a negative impact on our results of operations

The semiconductor industry is highly cyclical and has been subject to significant economic downturns at various times. In 2001, the industry experienced the most severe downturn in its history. These downturns are typically characterized by production overcapacity, accelerated erosion of average selling prices and reduced revenues. When these downturns occur, such as in 1991 and 1996 through 1998, as well as during the current downturn, which started in the third quarter of 2000, our results of operations are adversely affected. In addition, the markets for semiconductors and electronic systems that use semiconductor products are characterized by rapid technological change, leading to more complex and powerful products, evolving industry standards, intense competition, and fluctuations in end-user demand.

Overall, the semiconductor market expanded significantly from 1983 through 2000. According to trade association data, annual worldwide sales of all semiconductor products, referred to as the total available market, or TAM, grew from 1983 through 2000 at an average compound annual growth rate of approximately 15.4%. During the upward industry cycle in the first half of the 1990s, the semiconductor industry experienced significantly increased demand and production capacity constraints, with the TAM growth rate reaching over 40% in 1995. Reflecting the current downturn in the industry, the TAM decreased by approximately 32.0% in 2001 compared to 2000 following an increase of approximately 36.8% in 2000 compared to 1999. In addition, the serviceable

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available market, or SAM (redefined in 2001 to cover approximately 56% of total TAM and excluding PC motherboard major devices such as microprocessors and their peripherals, random access memories (RAMs), read-only memories (ROMs) and semicustom ICs and discrete segments such as the small signal transistor market and optoelectronics devices) decreased by approximately 24% over 2000 following an increase in 2000 of 44.5% compared with 1999. In the face of weakening economic conditions, the addition of new capacity and excess inventory held by end-users has given rise to overcapacity and competitive pricing which affected margins. We cannot guarantee that the current downturn will not continue to be severe or that it will not be followed by one or more future downturns or that any future downturns will not also have an even more severe material adverse effect on our results of operations.

Changes in industry capacity have led to overcapacity and have exacerbated the current industry downturn and may exacerbate future downturns

In the last ten years, many companies invested in building or improving semiconductor manufacturing capacity. According to published industry data and other industry sources, investment in worldwide semiconductor fabrication capacity totaled approximately \$38 billion in 1997, \$28 billion in 1998, \$33 billion in 1999, \$59 billion in 2000 and \$35 billion in 2001 or approximately 28%, 22%, 29% and 25%, respectively, of the total available market for such years. In addition to international semiconductor companies, companies specializing in operating semiconductor foundries (companies providing outsourcing capacity on a third party basis) such as Chartered, TSMC or UMC have added significant capacity, particularly in Asia. These capacity additions contributed to an increase of supply over demand during 1997, 1998 and 2001 and to declines in average selling prices and the downturn in the industry during these periods. Recent investments in 2000 and 2001 further increased overcapacity in 2001 and contributed to inventory surpluses, which exacerbated the current downturn. There has also been a shift in existing industry capacity to production of products that compete with our products. We believe that future fluctuations in the rate of industry capacity additions relative to the growth rate in demand for semiconductor products or the transformation of manufacturing facilities to produce products that compete with our products could continue to contribute to fluctuations in average selling prices and affect our results of operations.

During industry downturns, our high fixed costs adversely impact our results

In less favorable industry environments, we are driven to reduce prices in response to competitive pressures and we are also faced with a decline in the utilization rates of our manufacturing facilities due to decreases in product demand. Since the semiconductor industry is characterized by high fixed costs, we are not always able to reduce our total costs in line with revenue declines. Reduced average selling prices for our products therefore adversely affect our results of operations. Furthermore, in periods of reduced customer demand for our products, such as in 2001, our fabrication facilities, or fabs, do not operate at full capacity, thereby increasing our fixed costs. Our gross profit margin declined from 38.9% in 1997 to 38.3% in 1998 during difficult market conditions. Our gross profit margin was 39.6% in 1999, 46.0% in 2000 and 36.3% in 2001. In the difficult market conditions encountered during 2001, our gross profit margin was 44.5% in the first quarter, 33.6% in the second quarter, 33.0% in the third quarter and 31.7% in the fourth quarter. Gross profit margin for the first quarter of 2002 was 33.4%, 170 basis points above fourth quarter 2001, but well below the comparable first quarter 2001 period. We cannot guarantee that the current downturn will not continue to affect the loading of our fabs, particularly our more mature plants and consequently our future gross margins. We cannot guarantee that increased competition in our core product markets will not lead to further price erosion, lower revenue growth rates and lower margins in the future.

Competitive factors in our industry make the competitive environment intense

We compete on the basis of a variety of factors, and our success depends on our ability to compete successfully in all of the relevant areas. We compete in different product lines to various degrees on the following bases:

price
technical performance
product features
product system compatibility

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product design

availability

quality

sales and technical support.

Our ability to compete successfully also depends on factors partially outside of our control, including:

successful and timely development of new products and manufacturing processes

manufacturing yields

product availability

industry and general economic trends

performance of our key customers in the markets they serve.

Our results may be adversely impacted by worldwide economic downturns

Our results are increasingly linked to worldwide economic trends, especially in the United States, the European Union, Japan and Asia. The economic situation in Asia in 1998 had a negative effect on the worldwide semiconductor market and made semiconductor and end-user market requirements more difficult to predict. The deteriorated economic conditions in the United States, the recession in Japan and the slow-down in other markets in which we operate, linked to a declining GDP growth rate and to inventory build-ups by certain customers for semiconductor products, negatively impacted the semiconductor market in 2001 which, following growth of 36.8% in 2000, declined by over 32% in 2001, according to industry sources. We believe that these market conditions have created additional pressures on unit demand and on semiconductor prices in general. The current economic uncertainties have caused our customers to experience reduced demand for their products that include our products and our results of operations have been adversely affected.

Because we operate in an industry where technology changes rapidly, our products may become obsolete and we may not be able to develop new ones in a timely manner

The market for our products is characterized by rapidly changing technology. Therefore, our success is highly dependent upon our ability to develop and manufacture increasingly complex new products on a cost-effective basis, to introduce them in the marketplace on a timely basis, and to have them selected for design into future products of leading systems manufacturers. We have committed and intend to continue to commit substantial resources to the development of new products. Because new product development commitments must be made well in advance of sales, however, our new product decisions must anticipate both future demand and the technology that will be available to supply such demand. Delays in developing new products with anticipated technological advances, failure to win new design projects for customers or in commencing volume shipments of new products, may have an adverse effect on our business. In addition, there can be no assurance that new products, if introduced, will gain market acceptance or will not be adversely affected by new technological changes or new product announcements by others.

Our future success depends in part upon our ability to develop and implement new design and process technologies

Semiconductor design and process technologies are subject to rapid technological change and require large expenditures for capital investment and research and development. We are developing advanced and standardized design tools for our processes as well as libraries of macrofunctions and megafunctions for many of our products. We are also focusing on improving our concurrent engineering practices to better coordinate design activities and reduce overall time-to-market. If we experience substantial delays in developing new design or process technologies or inefficiently implement production increases or transitions, our results of operations could be adversely affected.

Loss of key employees could hurt our competitive position

As is common in the semiconductor industry, success depends to a significant extent upon our key senior executives and research and development, engineering, marketing, sales, manufacturing, support and other personnel. Our success also depends upon our ability to continue to attract, retain and motivate qualified personnel. The competition for such employees is intense, and the loss of the services of any of these key personnel without adequate replacement or the inability to attract new qualified personnel could have a material adverse effect on us. Mr. Pasquale Pistorio, age 66, has been the sole member of our Managing Board and our president and chief executive officer since our formation in 1987. Mr. Pistorio was reappointed at our 2002 annual shareholders meeting for a three-year term expiring at our annual general meeting to be held in 2005. We do not maintain insurance with respect to the loss of any of our key personnel.

Some of our production processes and materials are environmentally sensitive, which could lead to increased costs due to environmental regulations or to damage to the environment

We are subject to a variety of governmental regulations relating to the use, storage, discharge and disposal of chemicals, gases and other hazardous substances used in our manufacturing processes. We have established proactive environmental policies with respect to the handling of chemicals, gases, emissions and waste disposals from our manufacturing operations, and we have not suffered material environmental claims in the past. We believe that our activities comply with presently applicable environmental regulations in all material respects. All of our facilities have been approved as being in compliance with the EU Eco-Management and Audit Scheme regulations, and have also obtained ISO 14001 certification. We are participating in various working groups set up by the European Commission to propose new legislation regarding the collection, recovery and disposal of electronic equipment, as well as banning the use of lead and some flame retardants in manufacturing electronic components. We intend to proactively implement such new legislation when enacted, in line with our commitment towards environmental protection.

The implementation of any such legislation could adversely affect our manufacturing costs or product sales by requiring us to acquire costly equipment or materials, or to incur other significant expenses in adapting our manufacturing processes or waste and emission disposal processes. Furthermore, environmental claims or our failure to comply with present or future regulations could result in the assessment of damages or imposition of fines against us, suspension of production or a cessation of operations and, as with other companies engaged in similar activities, any failure by us to control the use of, or adequately restrict the discharge of hazardous substances could subject us to future liabilities.

Because we depend on a limited number of suppliers for raw materials, we may experience supply disruptions or pricing pressure

Our manufacturing operations depend upon obtaining adequate supplies of quality raw materials on a timely basis. Thus, our results of operations would be adversely affected if we were unable to obtain adequate supplies of raw materials in a timely manner or if there were significant increases in the costs of raw materials or problems with the quality of these raw materials. A number of materials are available only from a limited number of suppliers, or only from a limited number of suppliers in a particular region. In addition, we purchase raw materials such as silicon wafers, lead frames, mold compounds, ceramic packages and chemicals and gases from a number of suppliers on a just-in-time basis. Although supplies for the raw materials we use are currently adequate, shortages could occur in various essential materials due to interruption of supply or increased demand in the industry. In addition, suppliers may extend lead times, limit our supply or increase prices due to capacity constraints or other factors. Any such supply limitations or price increases could adversely affect our quarterly or annual results of operations.

Risk factors related to our operations

Our operating results may vary significantly from quarter to quarter and annually

Our operating results are affected by a wide variety of factors that could materially and adversely affect revenues and profitability or lead to significant variability of operating results. These factors include, among others, the cyclicality of the semiconductor and electronic systems industries, capital requirements, inventory management and the availability of funding, competition, new product development and technological change, and manufacturing problems. In addition, a number of other factors could lead to fluctuations in quarterly and annual operating results,

including:

order cancellations or reschedulings by customers

excess inventory held by customers leading to reduced bookings or product returns by key customers

manufacturing capacity and utilization rates

restructuring and impairment charges

changes in distribution and sales arrangements

intellectual property developments

failure to win new design projects

problems with product quality

litigation

possible acquisitions

problems in obtaining adequate raw materials on a timely basis

the loss of key personnel

inability to secure sufficient insurance coverage at acceptable terms, in light of current conditions on the insurance market.

Unfavorable changes in the above and other factors have in the past and may in the future adversely affect our operating results. In addition, during periods of industry overcapacity and declining selling prices, customer orders are not generally made as far in advance of the scheduled shipment date as during periods of capacity constraints, and we have experienced an increasing reliance on orders placed and shipped within the same month. During the current industry downturn, as in those in the past, we are experiencing lower levels of backlog, which in turn reduce our management s ability to forecast production levels, revenues and margins.

We face intense competition in our core product lines as well as in emerging applications from both large integrated manufacturers and smaller niche companies

The semiconductor industry is intensely competitive and we face significant competition in each of our product lines. Some of our competitors are large integrated manufacturing groups that compete with us in most of our product lines. A few of these large companies have substantially greater financial and other resources than we do. As a result, these companies may be able to invest more than us in research and development, in the construction of large-scale, advanced, cost-effective manufacturing plants and in the marketing of products, and this may adversely affect our ability to take advantage of potentially profitable business opportunities. Such large competitors include:

Advanced Micro Devices

Agere Systems

Analog Devices

Atmel

Broadcom

Fairchild

Fujitsu

Hitachi

8

IBM

Infineon Technologies

Intel

LSI Logic

Matsushita

Mitsubishi Electric Corporation

Motorola

National Semiconductor

Nippon Electric Company

ON Semiconductor

Philips Semiconductors

Samsung

Texas Instruments

Toshiba

In addition, we are facing increased competition from some of the above companies as well as from smaller niche companies, especially design companies, that specialize in certain product lines and may decide to invest more than we do in research and development and marketing of selected products. These competitors may also use semiconductor foundry companies that produce high volume products and may offer competitive pricing. Such foundry companies such as Chartered, TSMC and UMC have expanded significantly in recent years, particularly in Asia. Other smaller niche competitors include manufacturers of standard semiconductors, integrated circuits for specific applications and fully customized integrated circuits, including both chip and board-level products. In addition, some of our customers have developed their own integrated circuit products and foundry operations.

Certain of our competitors have increased their focus on products that compete with our products

In recent years, some of our competitors have redirected their research and development activities, marketing focus and manufacturing capacity toward products that compete with our products. We believe increased focus by our competitors in our core product markets is generating greater pricing pressure, increased competition for market share in the serviceable available market, and a generally more challenging market environment for us. In addition, as new products are developed, we will face significant competition in each of these markets. We may not be able to establish or maintain a strong market position in all of our product markets.

Because we have our own manufacturing facilities, our capital needs are high compared to competitors who do not produce their own products, and they remain high during industry downturns

As a result of our strategic choice to maintain control of our advanced proprietary manufacturing technologies to serve our customer base and develop our strategic alliances, we require significant amounts of capital to build, expand, modernize and maintain our facilities. Some of our competitors, however, do not manufacture their own products, and therefore do not require significant capital expenditures for their facilities. Our capital expenditures totaled \$0.9 billion in 1998, \$1.3 billion in 1999 and \$3.3 billion in 2000. Due to market conditions, we reduced our capital expenditure for 2001 from an initial plan of \$2.5 billion to \$1.7 billion. For 2002, we forecast capital expenditures to total approximately \$1.2 billion. We seek to modulate such investments in line with market requirements although we may continue to invest significantly in the coming years as the requirements of new

technologies increase the cost of production equipment. We will continue to monitor our level of capital spending taking into consideration factors such as trends in the semiconductor market and capacity utilization.

The semiconductor industry also requires heavy commitments of funds for research and development necessary to keep up with the rapid pace of technological change and to consistently develop innovative, well performing

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and cost-effective products. We intend to continue to increase research and development expenditures in the future, although not necessarily as a percentage of net revenues.

Our research and development efforts in the field of CMOS process development are dependant on alliances and our business, results of operations and prospects could be materially adversely affected by the failure of such alliances in developing new process technologies in line with market requirements

On April 12, 2002, we announced that Motorola's semiconductor unit had signed a memorandum of understanding proposing to join a comprehensive research and development alliance among us and Philips to provide 90-namometer to 32-namometer chip technologies on 300mm wafers in our Crolles, France research and development center. This announcement followed a previous announcement in March 2002 of an agreement among us, Philips and TSMC which completed an existing agreement between Philips and us concerning joint research and development and the operation of a 300mm pilot line in Crolles. Joint investment is intended to reach \$1.4 billion by 2005 with the stated goal of accelerating the development of future technologies and their proliferation throughout the semiconductor industry. See Item 4. Information on the Company Research and Development . We expect to finalize the terms of this new alliance with Motorola shortly. However, there can be no assurance that we will be able to achieve this objective on satisfactory terms, that our alliances with Philips, Motorola and/or TSMC will enable us to effectively develop new technologies which meet customer demands, or that our operations will not be adversely affected by unforeseen events and the sizeable risks related to the development of new technologies, including unforeseen extra costs, which could materially adversely affect our business, results of operations and prospects.

We could need additional funding in the coming years

At December 31, 2001, we had a negative net financial position (total debt net of cash, cash equivalents and marketable securities) of \$456.6 million. The cost of new manufacturing facilities is increasing due to the requirements of advanced sub-micron facilities and technologies as well as the migration from 200mm wafer to the new, more complex 300mm wafer manufacturing equipment. In addition, if we proceed with acquisitions, we may incur additional indebtedness, which could increase our interest costs and adversely affect our results. In such circumstances, we may need to issue additional debt or equity, or both.

Our manufacturing processes are highly complex, costly and potentially vulnerable to impurities and disruptions that can significantly increase our costs and delay product shipments to our customers

Our manufacturing processes are highly complex, require advanced and increasingly costly equipment and are continuously being modified in an effort to improve yields and product performance. Impurities or other difficulties in the manufacturing process can lower yields, interrupt production or result in losses of products in process. As system complexity has increased and sub-micron technology has become more advanced, manufacturing tolerances have been reduced and requirements for precision have become even more demanding. Although in the past few years we have significantly enhanced our manufacturing capability in terms of efficiency, precision and capacity, we have from time to time experienced production difficulties that have caused delivery delays and quality control problems, as is common in the semiconductor industry. We cannot guarantee that we will be able to increase the capacity, efficiency or precision of our manufacturing capabilities in the future to the same extent as in the past. We might also experience production difficulties in the future. In addition, during past periods of high revenue growth for us, our manufacturing facilities have operated at high capacity, which has led to production constraints.

As is common in the semiconductor industry, we have, from time to time, experienced difficulty in ramping up production at new facilities or effecting transitions to new manufacturing processes. As a result, we have suffered delays in product deliveries or reduced yields. In the future, we might face:

construction delays

delays in ramping up production at our new facilities or on our new lines, in upgrading or expanding our existing facilities, or in changing our process technologies

interruptions in production

delivery delays

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manufacturing problems in achieving acceptable yields

capacity constraints

contamination or fires, storms, earthquakes or other acts of nature, for which we may be unable to obtain sufficient insurance coverage on acceptable terms and conditions,

the impact of which is exacerbated during a period of industry constraint.

In addition, our development of fabrication facilities that include 200mm or 300mm capabilities, or which require advanced technologies, has increased the potential for losses associated with production difficulties, imperfections, or other causes of defects. If production is interrupted at a manufacturing facility, we may not be able to shift production to other facilities on a timely basis or customers may decide to purchase products from another supplier. In either case the loss of revenues and impact on our relationships with our customers could be significant. Our operating results could also be adversely affected by the increase in fixed costs and operating expenses related to increases in production capacity if revenues do not increase commensurately.

We may face overcapacity and obsolescence in some of our older fabrication facilities that may lead to plant closures, impairments and inventory write-offs

In a period of market downturn, we may face overcapacity issues, particularly in our older fabrication facilities that use mature process technologies. Like other semiconductor manufacturers, we could have mature fabrication facility capacity being only partially used, which may affect our cost of operations. These considerations led us to record an asset impairment and restructuring charge of \$296.3 million in the second quarter 2001, with respect to certain of our more mature 150mm wafer fabs as well as to announce and complete the closing in 2001 of our wafer fab manufacturing facility in Ottawa, Canada. During the third quarter of 2001, we also initiated a plan for the closure of our plant in Rancho Bernado, California, which was completed in April 2002, resulting in an additional asset impairment charge of \$23.3 million recorded in 2001. We are continuously reviewing our strategy with respect to our more mature 150mm wafer fabs in order to maintain flexibility and efficiency through difficult market conditions. We announced on January 22, 2002 that without the expected pickup in demand and/or pricing during 2002, we could incur further impairment and restructuring charges with respect to our more mature 150mm fabs in 2002. Further actions may include the sale, wafer production curtailment or closure of other similar facilities. In addition, in the second quarter 2001, we recorded a special inventory charge for obsolescence of \$70.7 million in cost of sales due to significant cancellations of customer orders that resulted in unuseable quantities of work in process and finished goods inventories. If we are unable to simultaneously and proportionately cut our manufacturing costs, or make other necessary savings in due time, our cost of operations could be adversely affected in the future.

If our outside wafer suppliers fail to perform, this could adversely affect our ability to exploit growth opportunities

In order to meet anticipated requirements for high-speed complementary metal-oxide silicon (HCMOS) wafers, we have used outside suppliers, or foundries, for the supply of up to 15% of our requirements for these wafers. We do not intend to increase our reliance on front-end manufacturing through external foundries beyond this level. In fact, in 2001, in a period of market downturn, our reliance on such suppliers significantly decreased. However, when our markets grow, we may face capacity constraints and we expect to continue to rely on third-party wafer suppliers without having the same degree of management control and supervision over their operations as we do over our own. If these suppliers experience manufacturing difficulties, delays, or reduced yields, our results of operations and ability to satisfy customer demand could suffer. In addition, purchasing rather than manufacturing these products may adversely affect our gross profit margin if the purchase costs of these products are higher than our own manufacturing costs.

Our common share price and operating results may be negatively affected by potential acquisitions

Our growth to date has primarily been organic. In 1999, however, we made three acquisitions: the Peripheral Technology Solutions group from Adaptec for a purchase price of approximately \$72 million, Vision Group plc for a purchase price of approximately \$41 million and Arithmos for a purchase price of approximately \$42 million. In 2000, we acquired from Nortel Networks its semiconductor business including a 150mm manufacturing facility located in Ottawa, Canada, for a purchase price of approximately \$60 million. In May 2001.

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we announced the closure of this facility, which was completed by the end of 2001. In September 2000, we acquired the assets and business of Waferscale Integration, Inc. for approximately \$78 million. In December 2000, we acquired Portland Group Inc. (PGI), a vendor of compilers and software development tools to the high-performance parallel computing market, for approximately \$18 million. In March 2001, we acquired Ravisent's consumer electronics business for approximately \$56 million. In July 2001, we closed the purchase of a software design center in Prague, Czech Republic from Veridicom Inc., involving the acquisition and licensing of intellectual property for fingerprint biometric security products, for approximately \$4 million. On April 15, 2002, we announced the acquisition of Alcatel Microelectronics SA, an affiliate of Alcatel SA, for approximately 390 million (approximately \$351 million) and a cooperation agreement for the joint development of DSL chip-sets that will also be made available on the open markets. The acquisition announcement was followed by the announcement of an agreement with AMI Semiconductors Inc. (AMIS) for the sale by us to AMIS of Alcatel Microelectronics mixed-signal business for approximately 70 million (approximately \$63 million). Both transactions remain subject to regulatory approvals and customary conditions to closing of corporate transactions. As a result of the adoption of a new statement by the Financial Accounting Standards Board regarding the accounting to be applied to goodwill and intangible assets subsequent to their initial recognition (FAS 142), to become effective for fiscal years beginning after December 15, 2001, goodwill resulting from certain of these acquisitions may no longer be amortized but may be subject to annual impairment tests to determine their appropriate carrying value.

We may, from time to time, consider making selected additional acquisitions that we believe would complement or expand our existing business. We may pay for these acquisitions with cash, our common shares or both. These acquisitions, if they occur, may have a dilutive effect for existing shareholders and, whether they are paid for in cash or common shares, may negatively affect our common share price. Announcements concerning potential acquisitions could be made at any time.

Acquisitions involve a number of risks that could adversely affect our operating results, including:

the diversion of management s attention

the assimilation of the operations and personnel of the acquired companies

the assumption of potential liabilities, disclosed or undisclosed, associated with the business acquired, which liabilities may exceed the amount of indemnification available from the seller

the risk that the financial and accounting systems utilized by the business acquired will not meet our standards

the risk that the businesses acquired will not maintain the quality of products and services that we have historically provided

the inability to attract and retain qualified management for the acquired business

our inability to retain customers of the acquired entity

the risk of goodwill impairment.

There can be no assurance that (a) we will be able to consummate future acquisitions on satisfactory terms, if at all, (b) adequate financing will be available for future acquisitions on terms acceptable to us, if at all, or (c) any operations acquired will be successfully integrated or that such operations will ultimately have a positive impact on our business.

Our business can be adversely affected by changes in the value of the U.S. dollar

A material variation in the value of the U.S. dollar against the principal European and Asian currencies which have a material impact on us could result in a favorable impact on our net income in the case of an appreciation of the U.S. dollar, or a negative impact on our net income if the U.S. dollar depreciates relative to these currencies. For example, the appreciation registered by the U.S. dollar in 2000 and 2001 against the principal European and Asian currencies (excluding the Japanese yen, which appreciated compared to the U.S. dollar) resulted in a negative impact on revenues and a favorable impact on operating income for 2001, because of the favorable impact on cost of sales and operating expenses which exceeded the negative impact on net revenues. Isn

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addition, the balance sheet impact of translation adjustments has been, and may be expected to continue to be, material from period to period. Our policy is to monitor and cover a portion of our exchange rate exposure, and we manage our operations to mitigate, but not eliminate, the positive or negative impact of exchange rate fluctuations.

Our controlling shareholders interests may conflict with investors interests

ST Microelectronics Holding II B.V. (ST Holding II), a wholly owned subsidiary of STMicroelectronics Holding N.V. (ST Holding), currently owns approximately 36.2% of our issued and outstanding common shares and is effectively in a position to control actions that require shareholder approval, including corporate actions, the election of our Supervisory Board and our Managing Board and the issuance of new shares or other securities. As permitted by our articles of association, the Supervisory Board has specified further selected actions by the Managing Board that require the approval of the Supervisory Board.

ST Holding is currently jointly and directly owned by a French shareholder that is indirectly controlled by the French government and an Italian shareholder in whom the Italian government holds approximately 34.2% of the share capital and retains special powers to approve or determine certain corporate actions. The French shareholder, FT1CI, is a holding company for two of our indirect shareholders, Areva Group and France Telecom, each of which are ultimately controlled by the French government. Finmeccanica is an Italian holding company owned by both the Italian Ministry of Treasury, which controls important actions of Finmeccanica due to its significant holding in it, Istituto per la Ricostruzione Industriale-IRI S.p.A. in liquidazione (I.R.I. , the holding company for Italian state-owned industrial and commercial interests) and the public. The Italian Ministry of Treasury has appointed a majority of the members of Finmeccanica s Board of Directors and pursuant to the provisions of its articles of association and Italian law, retains veto rights over certain major transactions involving Finmeccanica. These French and Italian shareholder groups of ST Holding have entered into a shareholders agreement which enables each of them to designate three members of the Supervisory Board and includes provisions requiring the approval of the Supervisory Board of ST Holding for actions by ST Holding, us and our subsidiaries. In December 2001, the French and Italian shareholder groups of ST Holding (Areva Group, Finmeccanica S.p.A. and France Telecom) signed a new shareholders agreement to facilitate the offering of our common shares by France Telecom and Finmeccanica as well as the offering by France Telecom of exchangeable notes, exchangeable into our common shares. The new shareholders agreement provides that for a two-year period, FT1CI (the holding company for the two indirect French shareholders of ST Holding) and Finmeccanica will share equal voting rights with respect to ST Holding and us despite their difference in indirect economic interest in us resulting from the December 2001 common share offering by France Telecom and Finmeccanica and exchangeable note offering by France Telecom. See Item 7. Major Shareholders and Related Party Transactions Shareholders Agreements New Shareholders Agreement .

Furthermore, the new shareholders agreement provides, among other things, that France Telecom intends to dispose of its entire interest in our common shares following the expiration of a 180-day lock-up period which expires in May 2002. It also provides that Areva has both the freedom to dispose of its stake after a 24-month period following the agreement, as well as the possibility of rebalancing its stake to equal Finmeccanica s stake. Finmeccanica sold certain amounts of common shares held, initially at the same time as France Telecom, and has the right to have additional common shares sold during such 24-month period so that it may sell a total number of common shares equal to the amount sold during such 24-month period by France Telecom.

Finally, the new ST Holding shareholders agreement continues the requirement that unanimous approval of the ST Holding shareholders be obtained before the Supervisory Board members can take certain actions notwithstanding the reduction in their indirect ownership interest in us. The actions covered by these provisions include, among other things, any alteration in our authorized share capital, any new issue of shares by us, any merger, acquisition or joint venture agreement to which we are to be a party, and any items on the agenda for our general shareholders meeting. In addition, as is the case with other companies controlled by the French government, certain ministries of the Republic of France may veto any decision taken by the board of directors of FT1CI.

France Telecom and Areva, the shareholders of FT1CI, are parties to a separate shareholders agreement that requires the approval of the board of directors of each such company before members of the Supervisory Board appointed by the group of French shareholders may approve specified actions to be taken by ST Holding, ST Holding II, us or our subsidiaries. See Item 7. Major Shareholders and Related Party Transactions Shareholders Agreements New Shareholders Agreement .

These various requirements for the prior approval of various actions to be taken by us and our subsidiaries may give rise to a conflict of interest between our interests and investors interests, on the one hand, and the interests of the individual shareholders approving such actions, on the other, and may result in a delay in the ability of our Managing Board to respond as quickly as may be necessary in the rapidly changing environment of the semiconductor industry. In particular, our ability to issue new shares or other securities may be limited by the existing shareholders desire to maintain their proportionate shareholding, and aggregate shareholding level, at a certain minimum level, such as the 30% percentage threshold that applies to the option agreement relating to preference shares discussed below. Such approval process is, however, subject to the provisions of Dutch law requiring members of our Supervisory Board to act independently in supervising our management.

In addition, France Telecom issued exchangeable notes redeemable by way of exchange for our common shares after January 2, 2004, representing 3.37% of our issued and outstanding common shares in December 2001. The interests of France Telecom as the issuer of the exchangeable notes may not necessarily coincide with our interests.

We may also have contractual and other business relationships with our indirect shareholders and/or their affiliates and may engage in significant transactions from time to time. Although it is anticipated that any such transactions and agreements will be on terms no less favorable to us than we could obtain in comparable contracts with unaffiliated third parties, conflicts of interest may arise between us and our indirect shareholders and their affiliates in a number of circumstances.

Our shareholder structure and our preference shares may deter a change of control

On May 31, 1999, our shareholders at the annual general meeting approved the creation of up to 180,000,000 preference shares. Pursuant to the 3-for-1 stock split effected in May 2000, the number of such preference shares has increased to 540,000,000. These preference shares entitle a holder to full voting rights at any meeting of shareholders and to a preferential right to dividends and distributions upon liquidation. On May 31, 1999, in order to protect ourselves from a hostile takeover or other similar action, we entered into an option agreement with ST Holding II, which provides that (taking into account the 3-for-1 stock split of May 2000) up to 540,000,000 preference shares shall be issued to ST Holding II upon its request and subject to the adoption of a resolution of our Supervisory Board giving our consent to the exercise of the option and upon payment of at least 25% of the par value of the preference shares to be issued. Following the most recent decision of our Supervisory Board, the option is contingent upon ST Holding II retaining at least 30% of our issued share capital at the time of exercise. No preference shares have been issued to date. The preference shares, if issued, would have priority with respect to dividends and distributions upon liquidation over the common shares. The effect of the preference shares may be to deter potential acquirers from effecting an unsolicited acquisition resulting in a change of control. In addition, any issuance of additional capital within the limits of our authorized share capital, as approved by our shareholders, is subject to the approval of our Supervisory Board and of the Supervisory Board of ST Holding.

Substantial sales of our common shares into the market could cause the market price of our common shares to drop significantly

As of December 31, 2001, 889,699,181 of our common shares were issued and outstanding, not including (i) common shares issuable under our various employee stock option plans or employee share purchase plans, (ii) common shares issuable upon conversion of our outstanding convertible debt securities and (iii) 9.4 million shares repurchased in 2001. Substantial sales of existing shares of our common shares or securities exchangeable into our existing shares, or newly issued shares or convertible debt securities by us, could cause the market price of our common shares to drop significantly. The timing and size of any future primary or secondary offerings will depend upon market conditions as well as a variety of factors.

The shareholders of ST Holding signed a new shareholders agreement on December 10, 2001 that states that France Telecom intends to dispose as soon as possible of its indirect interest in our common shares, while Areva has obtained its freedom to dispose of its stake after a 24-month period from the date of such agreement, as well as the possibility of rebalancing its stake to equal Finmeccanica s stake. The new shareholders agreement provides that Finmeccanica will have the right to sell additional common shares during such 24-month period so that it may sell a total number of shares equal to the amount sold by France Telecom. For a description of these provisions, see Item 7. Major Shareholders and Related Party Transactions Shareholders Agreements New Shareholders Agreement Disposals of Our Common Shares . Under the new shareholders agreement, sales of additional amounts of our

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common shares by ST Holding II on behalf of its indirect shareholders will not necessarily affect its relative voting rights as shareholders. It is highly likely that additional sales of our common shares will occur. Any such transaction, or publicity concerning such a potential transaction, could negatively affect the market price of our common shares. See Item 7. Major Shareholders and Related Party Transactions Shareholders Agreements New Shareholders Agreement Disposals of Our Common Shares .

Disruptions in our relationships with any one of our key customers could adversely affect our results of operations

We have several large customers, some of whom have entered into strategic alliances with us. As of December 31, 2001, our largest customer was Nokia, which accounted for 19.3% of net revenues, and our top ten customers accounted for approximately 50% of net revenues. We cannot guarantee that our largest customers will continue to book the same level of sales with us that they have in the past. Many of our key customers operate in cyclical businesses that are also highly competitive, and their own demands and market positions may vary considerably. Our customers have in the past, and may in the future, vary order levels significantly from period to period. In addition, approximately 16% of our net revenues were made through distributors in 2001 compared to 18% in each of 2000 and 1999. We cannot guarantee that distributors, or any other customers, will continue to place orders with us in the future at the same levels as in prior periods. If we were to lose one or more of our customers or distributors, or if any other key customer were to reduce its bookings, increase its product returns or fail to meet its payment obligations, our operating results could be adversely affected. If orders are cancelled, we may not be able to resell products previously made or require the customers who have ordered these products to pay for them.

We depend on patents to protect our rights to our technology

We depend in part on patents and other intellectual property rights covering our products and their design and manufacturing processes. We intend to continue to seek patents on our inventions relating to product designs and manufacturing processes. The process of seeking patent protection can be long and expensive, however, and we cannot guarantee that we will receive patents from currently pending or future applications. Even if patents are issued, they may not be of sufficient scope or strength to provide meaningful protection or any commercial advantage. In addition, effective patent, copyright and trade secret protection may be unavailable or limited in some countries. Competitors may also develop technologies that are protected by patents and other intellectual property and therefore either be unavailable to us or be made available to us subject to adverse terms and conditions. We may not be able to obtain licenses or other rights to necessary intellectual property on acceptable terms.

Because patent and other intellectual property litigation is costly and unpredictable, our attempts to protect our rights or to defend ourselves against claims made by others could impose high costs and risks on our business

Litigation that could demand financial and management resources may be necessary to enforce our patents or other intellectual property rights. Also, we may become involved in costly litigation brought against us regarding patents, mask works, copyrights, trademarks or trade secrets. If we cannot obtain licenses or other intellectual property rights, or if we have litigation expenses or judgments that are contrary to us, our results of operations or financial condition could be hurt. We have from time to time received, and may in the future receive, communications alleging possible infringement of patents and other intellectual property rights of others. We have in the past negotiated broad patent cross-licenses with many of our competitors enabling us to design, manufacture and sell semiconductor products, without fear of infringing patents held by such competitors. As our sales increase compared to those of our competitors, the strength of our patent portfolio may not be sufficient to guarantee the conclusion or renewal of broad patent cross-licenses on terms which do not affect our results of operations. Furthermore, regardless of the validity or the successful assertion of any third-party patent or other intellectual property claims, we could incur significant costs with respect to the defense thereof that could have a material adverse affect our results of operations or financial condition.

We have benefited from state funding in France and Italy which might become unavailable, and as a result our costs could increase

Like many other semiconductor manufacturers operating in Europe, we have had the benefit of governmental funding for research and development expenses, industrialization costs (which include some of the costs incurred to bring prototype products to the production stage) and capital investment as well as low-interest financing. As a result of our history, our research and development facilities and manufacturing activities are

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concentrated mainly in France and Italy, and the substantial majority of our state funding has been derived from national and European Union programs in these countries. We have entered into funding agreements with France and Italy, which set forth the parameters for state support to us under selected national programs. These funding agreements require compliance with European Union (EU) regulations and approval by EU authorities and annual and project-by-project reviews and approvals.

The EU adopted guidelines in 1995 seeking to limit state aid for research and development activities routinely performed in the normal course of business. We cannot guarantee that we will continue to benefit from state aid for research and development, that such aid will not be revoked or discontinued, or that material aid granted by a government for research and development will not be reviewed or challenged by the EU.

We rely on receiving funds allocated by state governments on a timely basis. However, funding of programs in France and Italy is subject to annual appropriation. If these governments were unable to provide anticipated funding on a timely basis or if existing government-funded programs were curtailed or discontinued, this could have a material adverse effect on our business, operating results and financial condition. From time to time we have experienced delays in the receipt of funding under these programs. As the availability and timing of such funding are substantially outside its control, we may not continue to benefit from such government support, and funding may be delayed from time to time, or sufficient alternative funding may not be available if necessary or any such alternative funding may not be provided on terms as favorable to us as those previously provided. In addition, funding granted to us may be revoked or challenged or discontinued in whole or in part by any competent state or European authority, or competent administrative or judicial body, until the legal time period for challenging or revoking such funding has elapsed.

Because we are a Dutch company subject to the corporate law of The Netherlands, investors might have difficulty protecting their interests in a court of law or otherwise

Our corporate affairs are governed by our articles of association and by the laws governing corporations incorporated in The Netherlands. The corporate affairs of each of our consolidated subsidiaries are governed by the articles of association and by the laws governing such corporations in the jurisdiction in which such consolidated subsidiary is incorporated. The rights of the investors and the responsibilities of members of our Supervisory Board and Managing Board under Dutch law are not as clearly established as under the rules of some U.S. jurisdictions. Therefore, investors may have more difficulty in protecting their interests in the face of actions by our management, members of our Supervisory Board or our controlling shareholders than investors would have if we were incorporated in the United States. Under our articles of association, when our annual accounts are adopted by the general meeting of shareholders, the members of our Managing Board and Supervisory Board are discharged from liability for their actions during the financial year concerned, unless an express reservation is made by the general meeting of shareholders. This is without prejudice to the provisions of Dutch law, including provisions relating to liability of members of Supervisory Boards and Managing Boards upon bankruptcy of a company pursuant to articles 2:138 and 2:149 of the Dutch Civil Code. Notwithstanding the language in our articles of association, effective the financial year commencing on January 1, 2002, Dutch law no longer allows the automatic discharge of the members of our Supervisory Board and of our Managing Board when our annual accounts are adopted by our shareholders. Therefore, for the financial year commencing on January 1, 2002 and for subsequent financial years, in order to obtain such a discharge, the discharge will be introduced as a separate item on the agenda for our annual general meetings of shareholders.

Our executive offices and a substantial portion of our assets are located outside the United States. In addition, ST Holding II and most members of our Managing and Supervisory Boards are residents of jurisdictions other than the United States and Canada. As a result, it may be difficult or impossible for shareholders to effect service within the United States or Canada upon us, ST Holding II, or members of our Managing or Supervisory Boards. It may also be difficult or impossible for shareholders to enforce outside the United States or Canada judgments obtained against such persons in U.S. or Canadian courts, or to enforce in U.S. or Canadian courts judgments obtained against such persons in courts in jurisdictions outside the United States or Canada. This could be true in any legal action, including actions predicated upon the civil liability provisions of the U.S. securities laws. In addition, it may be difficult for shareholders to enforce, in original actions brought in courts in jurisdictions located outside the United States, rights predicated upon the U.S. securities laws.

We have been advised by our Dutch counsel, De Brauw Blackstone Westbroek N.V., that the United States and The Netherlands do not currently have a treaty providing for reciprocal recognition and enforcement of

judgments (other than arbitration awards) in civil and commercial matters. As a consequence, a final judgment for the payment of money rendered by any federal or state court in the United States based on civil liability, whether or not predicated solely upon the federal securities laws of the United States, would not be directly enforceable in The Netherlands. However, if the party in whose favor such final judgment is rendered brings a new suit in a competent court in The Netherlands, such party may submit to The Netherlands court the final judgment that has been rendered in the United States. If The Netherlands court finds that the jurisdiction of the federal or state court in the United States has been based on grounds that are internationally acceptable and that proper legal procedures have been observed, the court in The Netherlands would, under current practice, give binding effect to the final judgment that has been rendered in the United States unless such judgment contravenes The Netherlands public policy.

Removal of our common shares from the CAC 40 on Euronext Paris or the MIB 30 on the Borsa Italiana could cause the market price of our common shares to drop significantly

Our common shares have been included in the CAC 40 index on Euronext Paris since November 12, 1997 and the MIB 30 on the Borsa Italiana since March 18, 2002. However, our common shares could be removed from the CAC 40 or the MIB 30 at any time, and the exclusion or the announcement thereof could cause the market price of our common shares to drop significantly.

Item 4. Information on the Company

History and Development of the Company

STMicroelectronics N.V. was formed in 1987 under the name of SGS-Thomson Microelectronics N.V. and resulted from the combination of the semiconductor business of SGS Microelettronica (then owned by Società Finanziaria Telefonica (S.T.E.T.), an Italian corporation) and the non-military business of Thomson Semiconducteurs (then owned by the former Thomson-CSF, now Thales, a French corporation). We were incorporated in 1987, and our length of life is indefinite. We are organized under the laws of The Netherlands, have our corporate legal seat in Amsterdam and our holding company executive offices at De Run 4222, 5503LL Veldhoven, The Netherlands, near Eindhoven, The Netherlands. Our telephone number there is (31-49) 955-0634. Our headquarters and operational offices are located in the vicinity of Geneva Airport at Route de Pré-Bois 20, ICC Bloc A, 1215 Geneva 15, Switzerland. Our main telephone number is (41-22) 929-2929. We also maintain an administrative center at Technoparc du Pays de Gex B.P. 112, 165, rue Edouard Branly, 01637 Saint-Genis Pouilly, France; telephone number (33-4) 5040-2640. Our agent for service of process in the United States is STMicroelectronics, Inc., 1310 Electronics Drive, Carrollton, Texas, 75006-5039; telephone: +1 (972) 466-6000. STMicroelectronics N.V. is our parent company and we also conduct our operations through our consolidated subsidiaries.

For information on our principal capital expenditures and divestitures, see Item 5. Operating and Financial Review and Prospects .

Business Overview

We are a global independent semiconductor company that designs, develops, manufactures and markets a broad range of semiconductor integrated circuits (ICs), discrete and optoelectronic devices used in a wide variety of microelectronic applications, including automotive products, computer peripherals, telecommunications systems, consumer products, industrial automation and control systems. According to final rankings published by Dataquest-Gartner Group in March 2002, we are the third-largest semiconductor company based on 2001 sales, rising from sixth-largest in 2000. On the same basis, iSupply ranked us second-largest and IC-Insights third-largest in 2001. Based on our 2001 sales, Dataquest-Gartner Group ranked us as the world s third-largest semiconductor supplier in combined revenues from general purpose and application specific semiconductors for all communications system use and total automotive applications. According to iSupply and Databeans Inc., based on 2001 sales, we are the world s largest supplier of Analog ICs. According to Dataquest-Gartner Group, we are the world s leading supplier of EPROM memory and thyristors and the second leading supplier of EEPROM memory and power diodes. We currently offer more than 3,000 main types of products to approximately 800 direct customers. Major customers include Alcatel, Bosch, DaimlerChrysler, Delco, Echostar, Ericsson, Gemplus, Hewlett-Packard, Marelli, Matsushita, Nokia, Nortel Networks, Pace, Philips, Pioneer, Samsung, Schlumberger, Scientific Atlanta, Seagate Technology, Siemens, Sony, Thomson Multimedia and Western Digital. We also sell standard products through global distributors, including Arrow Electronics, Avnet Inc. and Eurodis.

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We offer a diversified product portfolio and develop products for a wide range of market applications to reduce our dependence on any single product, application or end market. Within our diversified portfolio, we have focused on developing products that leverage our technological strengths in creating customized, system-level solutions with high-growth digital and mixed-signal content. Products include differentiated ICs (which we define as being our dedicated products, semicustom devices and microcontrollers) and analog ICs (including mixed-signal ICs), the majority of which are also differentiated ICs, as well as certain Flash products which are sold for specific applications and to particular customers. As a leading provider of differentiated ICs, we have developed close relationships with customers, resulting in early knowledge of their evolving requirements enabling us to increase the penetration of our standard products. Differentiated ICs, which are less vulnerable to market cycles than standard commodity products, accounted for approximately 66% of our net revenues in 2001 compared to approximately 63% in each of 1999 and 2000. We also target applications that require substantial analog and mixed-signal content and can exploit our system-level expertise. Analog ICs accounted for approximately 51% of our 2001 net revenues compared to approximately 49% in 2000 and 51% in 1999, while discrete devices accounted for approximately 10% of our net revenues in 2001 compared to approximately 10% in 2000 and 12% in 1999.

Our products are manufactured and designed using a broad range of manufacturing processes and proprietary design methods. We use all of the prevalent function-oriented process technologies, including complementary metal oxide silicon (CMOS), bipolar and nonvolatile memory technologies. In addition, by combining basic processes, we have developed advanced systems-oriented technologies that enable us to produce differentiated and application-specific products, including BiCMOS technologies (bipolar and CMOS) for mixed-signal applications, BCD technologies (bipolar, CMOS and diffused metal oxide silicon (DMOS)) for intelligent power applications and embedded memory technologies. This broad technology portfolio, a cornerstone of our strategy for many years, enables us to meet the increasing demand for system-on-a-chip solutions. Complementing this depth and diversity of process and design technology is our broad intellectual property portfolio that we also use to enter into important patent cross-licensing agreements with other major semiconductor companies.

Our products are organized into the following principal groups:

Telecommunications, Peripherals and Automotive

Consumer and Microcontroller

Memory Products

Discrete and Standard ICs.

We also have a New Ventures Group that identifies and develops new business opportunities to complement our existing businesses, and a Subsystems Product Group that produces subsystems for industrial and other applications.

The tables below set forth information on our net revenues by product group and by geographic region:

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	Year ended December 31,						
	1997	1998	1999	2000	2001		
			(in millions)				
Net Revenues by Product Group:(1)							
Telecommunications, Peripherals and Automotive(1)	\$ 1,606.9	\$ 1,855.2	\$ 2,305.5	\$ 3,481.7	\$ 3,031.4		
Discrete and Standard ICs(1)	839.5	816.7	927.9	1,213.1	942.5		
Memory Products	708.6	659.6	835.9	1,552.9	1,381.5		
Consumer and Microcontrollers(1)(4)	738.8	806.3	886.4	1,466.3	895.7		
New Ventures Group and Others(2)(4)	125.4	110.0	100.6	99.2	105.8		
Total	\$ 4,019.2	\$ 4,247.8	\$ 5,056.3	\$ 7,813.2	\$ 6,356.9		
Net Revenues by Geographic Region:(3)							
Europe	\$ 1,753.3	\$ 1,768.9	\$ 1,833.6	\$ 2,629.2	\$ 2,169.0		
North America	899.1	937.3	1,156.1	1,843.0	1,160.7		
Asia Pacific	1,065.8	1,247.9	1,658.2	2,614.7	2,301.8		
Japan	214.5	180.7	239.7	402.4	331.4		
Emerging Markets(3)	86.5	113.0	168.7	323.9	394.0		
Total	\$ 4,019.2	\$ 4,247.8	\$ 5,056.3	\$ 7,813.2	\$ 6,356.9		
Net Revenues by Product Group:(1)		(as a perc	centage of net re	evenues)			
Telecommunications, Peripherals and Automotive(1)	40.0%	43.6%	45.6%	44.6%	47.7%		
Discrete and Standard ICs(1)	20.9	19.2	18.4	15.5	14.8		
Memory Products	17.6	15.5	16.5	19.9	21.7		
Consumer and Microcontrollers(1)(4)	18.4	19.0	17.5	18.8	14.1		
New Ventures Group and Others(2)(4)	3.1	2.7	2.0	1.2	1.7		
	100.00/	400.00/	400.00/	100.00/	100.00/		
Total	100.0%	100.0%	100.0%	100.0%	100.0%		
Net Revenues by Geographic Region:(3)							
Europe	43.6%	41.6%	36.3%	33.6%	34.1%		
North America	22.4	22.1	22.9	23.6	18.3		
Asia Pacific	26.5	29.4	32.8	33.5	36.2		
Japan	5.3	4.3	4.7	5.2	5.2		
Emerging Markets(3)	2.2	2.6	3.3	4.1	6.2		
Total	100.0%	100.0%	100.0%	100.0%	100.0%		

⁽¹⁾ In January 1999, we implemented organizational changes to better orient our product groups to end-use applications. As a result, net revenues have been restated for prior periods to reflect these changes. In addition, the former Dedicated Products Group has become the Telecommunications, Peripherals and Automotive Groups, while the former Programmable Products Group has become the Consumer and Microcontrollers Groups.

⁽²⁾ Includes revenues from sales of subsystems and other products and from the New Ventures Group, which was created in May 1994 to act as a center for our new business opportunities.

⁽³⁾ Revenues are classified by location of customer invoiced. For example, products ordered by U.S.-based companies to be invoiced to Asia Pacific affiliates are classified as Asia Pacific revenues. Net revenues by geographic region have been reclassified to reflect the creation of Region Five in January 1998 which includes emerging markets such as South America, Africa, Eastern Europe, the Middle East and India. Prior years have been restated to reflect this reclassification. In the fourth

quarter of 2000, Region Five changed its name to become the Emerging Markets region.

(4) In 2001, we implemented organizational changes to better orient our product groups to end-user applications. These changes affected the Consumer and Microcontrollers Groups and the New Ventures Group and Others. As a result, net revenues have been restated for prior periods to reflect these changes.

Strategy

The key elements of the strategy that guide our performance are set forth below.

Market share gains driven primarily by organic growth. Based upon 2001 sales, we have for the first time in our history been ranked third-largest global semiconductor company worldwide. In 1994, when we first became a publicly listed company, Dataquest-Gartner Group ranked us only twelfth among the largest global semiconductor companies worldwide. Our ascendance in the rankings, driven primarily by organic growth, has allowed us to achieve an increased market share of 4.5% in 2001, while at the same time maintaining profitability during the period, strengthening our balance sheet and generating net operating cashflows. In the past, we have, however, made certain targeted acquisitions of assets and intellectual property aimed at enhancing our expertise and presence in our strategic areas of priority. We may, from time to time, continue to make selected acquisitions or targeted

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equity investments in companies that we believe would complement or expand our existing business. For example, in May 2002, we announced the acquisition of Alcatel Microelectronics for 390 million (approximately \$351 million) in cash. Furthermore, we may seek to participate in or benefit from the semiconductor industry consolidation that we expect to occur over the next several years. Announcements concerning potential acquisitions may be made at any time. Acquisitions involve a number of risks that could adversely affect our operating results. See Item 3. Key Information Risk Factors Risk factors related to our operations Our common share price and operating results may be negatively affected by potential acquisitions .

Broad product portfolio. We offer a diversified product portfolio and develop products for a wide range of market applications to reduce our dependence on any single product, application or end market. Within our diversified portfolio, we have focused on developing products that leverage our technological strengths in creating customized, system-level solutions for high-growth digital and mixed-signal applications. Such products include differentiated ICs (which we define as being our dedicated products, semicustom devices and microcontrollers, as well as certain Flash products which are sold for specific applications and to particular customers) and analog ICs (including mixed-signal ICs), the majority of which are also differentiated ICs. As a leading provider of differentiated ICs, we have developed close relationships with customers, resulting in early knowledge of their evolving requirements enabling us to increase the penetration of our standard products. Differentiated ICs, which are less vulnerable to market cycles than standard commodity products, accounted for approximately 66% of our net revenues in 2001, and 63% in each of 2000 and 1999.

Differentiated ICs help drive our strategic alliances with customers, and in general command greater stability of margins across the semiconductor cycles than standard products. Standard products (including nonvolatile memories, discrete devices, Smartcard ICs, all standard logical and linear ICs and standard flash memories) represented approximately 33% of our net revenues in 2001. Our standard products families (with the exception of flash memories) require less capital investment thereby offering an opportunity to improve our cash flow, and extend the life cycle of our equipment and facilities, since they can continue to use equipment no longer suitable for leading edge products. We consider that this balance between differentiated and standard products represents a strategic contribution to cost effective manufacturing.

Broad range of process and design technologies. We intend to continue to utilize our expertise and experience with a wide range of process and design technologies to further develop our capabilities. We are committed to maintaining and, in certain areas increasing, expenditures on core research and development projects in the future as well as continuing to develop alliances with other semiconductor companies and suppliers of software development tools. Technological advances in the areas of transistor performance and interconnection technologies are being developed through our CMOS logic products and semicustom devices. We work, on an ongoing basis, with key suppliers to develop advanced and standardized design methodologies for our CMOS, mixed signals and nonvolatile memory processes as well as libraries of macrofunctions and megafunctions for many of our products, and are focusing on improving our concurrent engineering practices to better coordinate design activities and reduce overall time-to-market. We are also working closely with many of our key suppliers to develop easy-to-use design tools for specific applications. Furthermore, we recently entered into a strategic alliance with a leading manufacturer of photomasks for the development and supply of leading-edge and high-end photomasks in Europe to ensure rapid turn-around of these critical components. Alliances with other semiconductor manufacturers are generally designed both to permit the sharing of the increasing costs and technological risks involved in the research and development of state of the art processes, product architectures and digital cores and to enable a shorter time to market.

Leading global customer base with focus on strategic alliances. We work with our key customers to identify evolving needs and new applications and to develop innovative products and product features. We also seek to use our access to key customers as a supplier of application-specific products to expand our position as a supplier across a broad range of products. These alliances allow us and our customers to share certain of the product development risks and give our customers access to our process technologies and manufacturing infrastructure. We have established alliances in each of our key targeted applications, telecommunications, automotive, consumer and computers with customers such as Alcatel, Bosch, Hewlett-Packard, Marelli, Nokia, Nortel Networks, Pioneer, Seagate Technology, Siemens VDO, Thomson Multimedia and Western Digital, among others. In establishing these alliances, we have also sought to maintain a presence in key geographical markets. Our strategic alliances with key customers have been a major growth driver for us over the last few years with sales to those key partners growing at a rate faster than our average rate. In 2001, sales to strategic customers represented close to 47% of total revenues.

Integrated presence in key regional markets. We have consistently sought to develop a competitive advantage by building an integrated presence in each of the world s three major economic zones: Europe, Asia and

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North America. An integrated presence means having manufacturing, design, sales and marketing capabilities in each region, in order to ensure that we are well positioned to anticipate and respond to our customers—business requirements in local markets. Therefore, we have 200mm front-end manufacturing facilities in Europe (Agrate and Catania, Italy; and Crolles and Rousset, France), in the United States (Phoenix, Arizona) and in Asia (Singapore); the more labor-intensive back-end facilities have been located in Malaysia, Malta, Morocco, Singapore and China, enabling us to take advantage of favorable production costs (particularly labor costs). With major design centers and local sales and marketing groups within close proximity of key customers in each region, we believe we can maintain strong relationships with our customers. We intend to continue to build our integrated local presence in each region where we compete, as part of our efforts to better serve our customers, and to develop an early presence in potential high growth markets such as China, where we have both a back-end facility and a design center, and India, where we have a design center.

Balanced sales by application in high growth market segments. We maintain a geographically diverse customer base across a broad range of market applications. We have developed a strong product portfolio serving major application markets including computer peripherals, wireless communications, digital consumer electronics, Smartcards, automotive and power management. While we are consolidating our position in our established high volume businesses (including switching, engine management, car safety, traditional analog TVs, VCRs, monitors and displays, computer peripherals, power and industrial and consumer appliances), we have also been investing research and development and design resources to develop the next generation of high growth applications, such as Smartcards for security telephone, banking and user ID markets, portable computing, digital consumer (DVD, new generations of set-top boxes, digital TV, digital cameras and MP3 digital music players), wireless communications (digital cellular phones), data transport (fiber optic ICs and voice over IP, known as VoIP), Internet (xDSL), new automotive products (car radio multimedia) and new generations of mass storage devices.

Pioneer in System-on-Chip and application convergence. Since our inception, we have leveraged our know-how of a broad range of industries to integrate different system functions on a single chip, pioneering the trend towards system evolutions on silicon and superintegration. A modular approach is being utilized to develop options to the main manufacturing processes and blocks of intellectual property; strategic partnerships are the main lever for acquiring the system know-how to be embedded on the chip. We currently supply highly integrated products in all our main applications, and particularly in high volume domains such as hard-disk drives (disk controllers), set-top boxes and digital video drives (DVD).

We believe that application convergence built around mobility, connectivity, multimedia, storage and security will be a further significant growth driver for new system on chip products relating to different applications on a single chip. We plan to use our broad range of capabilities, including technology, system know-how, strategic alliances and intellectual property portfolio to continue to address this rapidly developing market and to both innovate and respond to the new end market demand.

Pervasive TQEM culture. We are fostering a corporate-wide TQEM culture that defines a common set of objectives and performance measurements for employees in all geographic regions, at every stage of product design, development, production and consignment for all product lines. TQEM in our company is based on five key principles: management commitment, employee empowerment, continuous improvement, management by fact and customer focus. TQEM has become an integral part of our culture and is designed to develop a self-directed work force with a common set of values, objectives and problem-solving processes. Since 1987, we have continually improved average AlQ (electrical) status levels. Most of our manufacturing facilities have been certified to conform to ISO international quality standards and Eco Management and Audit Scheme (EMAS). Several major customers, including Bosch, DaimlerChrysler, Hewlett-Packard, Nokia, Sanyo, Sharp and Sony have recognized our commitment to quality and have honored us with quality awards. Also in recent years, several prestigious awards have been accorded to our regional subsidiaries, underscoring our long-standing commitment to business excellence: the prestigious Malcolm Baldrige National Quality Award in the U.S., the Singapore Quality Award, the Moroccan National Quality Award, the EPA Climate Protection Award, the Malaysian Prime Minister Quality Award, and the Malta Quality Award. In 1997 the European Quality Award for Business Excellence in the category of large businesses was awarded to us by the European Foundation for Quality Management. Most recently, we received the EPA Climate Protection Award 2002. These awards illustrate the success of our unified Total Quality and Environmental Management philosophy on four continents.

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Products and Technology

We design, develop, manufacture and market a broad range of products used in a wide variety of microelectronic applications, including telecommunications systems, computer systems, consumer goods, automotive products and industrial automation and control systems. Our products include standard commodity components, full custom devices, semicustom devices and ASSPs for analog, digital and mixed-signal applications. Historically, we have not produced dynamic random access memory (DRAMs) or x86 microprocessors, despite having the necessary IP (intellectual property) to use them as components in System-on-Chip (SoC).

In 2001, we had four principal products groups, Telecommunications Peripherals and Automotive, Consumer and Microcontroller, Memory Products and, also, Discrete and Standard ICs. As part of our activities outside the principal product groups, we also have a New Ventures Group, which identifies and develops new business opportunities to complement our existing businesses, and a Subsystem Product Group, which produces subsystems for industrial and other applications. For a breakdown of net revenues by product group and geographic region each of the five years ended December 31, 2001, see Business Overview.

Telecommunications, Peripherals and Automotive Groups

The Telecommunications, Peripherals and Automotive Groups (TPA) are responsible for the design, development and manufacture of application-specific products using advanced bipolar, CMOS, BiCMOS mixed-signal and power technologies as well as mixed analog/digital semicustom-devices and Micro-Electro-Mechanical System (MEMS) products. The Groups offer complete system solutions to customers in several application markets. All products are application-specific standard products (ASSPs), full-custom or semicustom devices that may also include digital signal processor (DSP) and micro-controller cores.

The Telecommunications, Peripherals and Automotive Groups work closely with customers to develop application-specific products using our technologies, IP (intellectual property), and manufacturing capabilities. The breadth of our customer and application base provides us with a source of stability in the cyclical semiconductor market. The Telecommunications, Peripherals and Automotive Groups particularly emphasize dedicated ICs for automotive, computer peripherals and industrial application segments, as well as for communication, computing and networking application segments.

The Telecommunications Group has three application divisions, and the Peripherals and Automotive Group has four divisions. The Groups also share two support divisions: (i) digital signal processing and microcontrollers cores and (ii) digital and mixed analog/digital semicustom.

The Telecommunications Group has two long-established divisions and recently created a third:

- (i) Wireless Telecommunications Products. In wireless telecommunications, we focus our product offerings on cellular phones serving the major original-equipment manufacturers, or OEMs, with differentiated ICs. In this market, we have key positioning in energy management, audio CODEC and radio frequency ICs. In addition to our existing product applications, a leading cellphone maker recently chose us to supply a radio frequency solution for dual-mode terminals, using 0.35-micron SiGe technology. We also announced an agreement with TTPCom for the development of GSM and GPRS (2.5G) baseband platform chips for the next generation of mobile handsets and mobile Internet devices based on our ST100 DSP core. In February 2002, we announced a new cooperation agreement with Alcatel for the development of future GSM/GPRS chipsets for mobile phones and other wireless connectivity applications. Under the terms of the agreement, Alcatel has transferred to us its team of mobile phone integrated-circuit designers. We will get access to the know-how and intellectual property developed by this Group and related to GSM/GPRS. The resulting chipsets will be available for the open market. This cooperation also includes a multi-year supply agreement associated with 2.5G chipsets.
- (ii) Wireline Telecommunications Products. Our wireline telecommunications products are used in telephone sets, modems, subscriber line interface cards (SLICs) for digital central-office switching equipment and high-speed electronic and optical communications networks. In 2001, we signed an agreement with Huawei Technologies, China s number one telecom equipment manufacturer to jointly develop a key silicon chip for Huawei s SLICs. We also had important design wins, for high-speed (10 Gbit/sec) chips built in our cost-optimized silicon-germanium (SiGe) technology.

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In the area of broadband access, we offered a new asymmetrical digital subscriber line (ADSL) modem chipset aimed at both desktop and laptop computers that was the first on the market to employ a controller-less design with USB or PCI interface. Pursuing our efforts to support the DMT (Discrete Multi Tone) modulation technique as a worldwide standard for very high-bit rate digital subscriber line or VDSL, we demonstrated working prototypes of our Zipper-DMT VDSL modem technology that combines the very high bandwidth of VDSL with ADSL spectrum compatibility.

In February 2002, we signed an agreement to acquire the intellectual property and product range of Tioga Technologies for Digital Subscriber Line (xDSL) chipsets. These xDSL products include an integrated Asymmetric DSL (ADSL) multi-channel processor for central office applications. When used together with our existing line of advanced analog front-end and power-efficient line drivers, this chipset provides a competitive, compact and power-efficient solution.

In April 2002, as part of our agreement with Alcatel to acquire Alcatel Microelectronics, we announced our intention to enter into a cooperation agreement with Alcatel for the joint development of DSL chip sets that will also be made available to the open market. The new agreement calls for us to become a preferred supplier of Alcatel, thus expanding our long-standing strategic alliance.

(iii) Wireless Communications Infrastructure Products. In February 2002, we announced the formation of a new Wireless Communications Infrastructure Products business unit that will develop dedicated infrastructure chip solutions for GSM/GPRS, CDMA and new third-generation telecom standards. We have already developed all of the technologies required for the wireless infrastructure application specific IC (ASIC) market due to our many years of experience in this field. For the digital baseband chips that handle complex digital processing tasks, we have developed the ST100 family of digital signal processor cores. We have already developed other key technologies radio frequency and mixed signal for the demanding wireless terminal market, both areas where our expertise is widely recognized.

The Peripherals and Automotive Group has four divisions:

(i) Data Storage and Computer Peripherals. We produce ICs for several data storage applications, specializing in disk drives with advanced solutions for read and write digital channels, controllers, host interfaces, digital power processing and micromachinery. We are actively working on super-integrating these macro-functions into System-on-Chip (SoC) solutions.

In addition to delivering first samples of a 0.18-micron-technology hard-disk controller with embedded DRAM and gaining important new design wins for hard-disk drive (HDD) preamplifiers and dedicated power devices for high-end and mobile disk drives, we were selected by Quantum Technologies to supply a SoC solution for a new hard-disk drive. Based on our new Super10 DSP enhanced microcontroller core, the new device will also incorporate a hard disk controller, 4Mbits of embedded dynamic random access memory (DRAM) and interface functions. We will supply the complete system solution, including firmware. During the fourth quarter 2001, we also achieved three design wins for SoC devices with major hard-disk drive customers.

During the third quarter 2001, we introduced a high-performance MEMS-based (Micro-Electro-Mechanical System) rotational accelerometer for PC and consumer HDD applications. The device makes the drive more resistant to vibration, thereby improving overall read/write speed and disk density.

(ii) *Printers.* We are focusing on inkjet printer components and are an important supplier of pen chips, motor drivers, head drivers, high-performance photo-quality applications and digital color copiers. We are an important partner of Hewlett-Packard for technology development and manufacturing and are currently developing printer SoC platforms. Other notable successes in the printer field included contracts with two other leading printer manufacturers to develop SoC solutions with embedded DRAM for the digital printer engines used in inkjet printers. With these

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new contracts, we are now the chosen supplier at three out of the four leading manufacturers. In the fourth quarter 2001, we confirmed major design wins with two of the world s leading printer manufacturers, including two designs for CMOS-based digital engines, the processing heart of a printer, and one for a printer-head driver chip, which will be manufactured in our mixed-signal bipolar, CMOS, and DMOS (BCD) process.

(iii) Audio and Automotive Products. Our audio products include audio power amplifiers, audio processors and graphic-equalizer ICs. Our automotive products include alternator regulators, airbag controls, antiskid braking systems, ignition circuits, injection circuits, multiplex wiring kits and products for body and chassis electronics, engine management, instrumentation systems and car multimedia. We are currently developing solutions for global positioning systems (GPS) and multimedia in the car.

In 2001, our leading position in the automotive arena was reinforced by the introduction of a new 16-bit automotive-grade microcontroller chip with embedded Flash memory whose performance is guaranteed over the entire automotive temperature range, making it ideal for fast-growing applications such as engine control. In addition, our microcontroller built using 0.18-micron embedded Flash technology was selected by Siemens for a next-generation airbag system. In November 2001, we announced our intention to cooperate on the design and development of new smart power IC products for automotive applications with Delphi Systems. The agreement insures that Delphi will have access to our new BCD process developments.

In the audio field, we achieved a major technical milestone with XM Satellite Radio, the satellite radio broadcaster. By the end of 2001, we had shipped over 200,000 chipsets to manufacturers for the XM radio service in the United States. We announced the development of DSP-based decoder chips for Coding Technologies mp3PRO standard. We also started production of a new family of advanced amplifiers for car radios. A major design win has already been achieved at Visteon for the car radio for the new Fiat Stilo.

(iv) Industrial and Power Supplies. We design and manufacture products for industrial automation systems, lighting applications (lamp ballast), battery chargers and switch mode power supplies (SMPS). Our key products are power ICs for motor controllers and read/write amplifiers, intelligent power ICs for spindle motor control and head positioning in computer disk drives and battery chargers for portable electronic systems, particularly mobile telephone sets.

The Group also has two support divisions: (i) digital signal processing and microcontroller cores; and (ii) digital and mixed analog/digital semicustom. These two divisions are centers of excellence to develop key competences in the field of semicustom (digital and analog) as well as in DSP and microcontrollers cores. We are currently developing superintegrated solutions using our broad range of technologies (CMOS, BiCMOS, BCD) and our expertise in microcontrollers/DSP cores, dedicated IC megacells and embedded memory capability.

Consumer and Microcontroller Groups

The Consumer and Microcontroller Groups (CMG) are responsible for the design, development and manufacture of microcontrollers, graphics accelerators and application-specific standard products (ASSP) targeted at high-growth digital consumer applications, including digital set-top boxes, Digital Versatile Disk (DVD) players, digital cameras and digital TV.

Through year-end 2000, CMG was organized by system partitionings, with front-end ICs (reception and demodulation of the video signal), back-end ICs (decompression and control of the video signal) and micro cores. In the first quarter 2001, CMG was reorganized by application and it combined the front-end, the back-end and the micro cores activities of each application. Two new divisions have been created: the set-top-box division and the DVD division. CMG also comprises the TV, the Imaging and Display, the Graphics Products and the Microcontroller divisions.

The Consumer and Microcontroller Groups are divided into the Consumer Group and the Microcontroller Group. The Consumer Group is further divided into five divisions: set-top boxes, DVD, TV, Imaging and Display and the Graphics Products.

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Consumer Group

We consolidated our leadership in digital consumer applications on the basis of shipments in 2001, particularly for set-top boxes, DVDs and digital TVs, and we shipped more than 27 million MPEG2 decoder ICs in 2001. In January 2002, we signed a five-year technology agreement with Thomson Multimedia (TMM) to expand our strategic partnership in the field of System-on-Chip (SoC) for digital consumer applications to bring cost-effective and innovative solutions quickly to market. We have been successfully partnering for a decade in the development of state-of-the-art SoCs and intellectual property for TV, set-top box and DVD products. During the term of the initial agreement, we and TMM pioneered the development of MPEG video decoding. After enabling the launch of the world s first MPEG2 satellite TV service (DirectTV in 1994), both we and TMM have secured a leadership position in our respective markets. According to Dataquest-Gartner Group, we have been the world s largest supplier of MPEG decoder chips for the last three consecutive years and are also the world s largest supplier of differentiated ICs for consumer electronics products such as set-top boxes, TV sets, DVD players and digital cameras.

(i) The Set-top Box Division. We continued to expand our product and customer base introducing solutions for set-top boxes with web-browsing and video recording and time-shifting capabilities in 2001. We reinforced the market leadership of our STi5500 (OMEGA) family of set-top box back-end decoders with the introduction of the STi5514. The new device is backward software compatible with the highly successful STi5512, of which more than eight million units have been shipped, while integrating new peripherals and features that further reduce system cost in sophisticated high-volume applications. The STi5514 also allows hard-disk drive (HDD) capability to be easily added to STB designs, paving the way for low-cost PVR (Personal Video Recorder) equipment and similar emerging convergence products that offer features such as pausing and time-shifting of live TV streams and the ability to view one program while recording another. We also announced that the ST40GX1, the 32-bit microprocessor with 2D graphics and audio processing, is fully supported by Microsoft Windows CE 3.0. Windows CE support for the ST40GX1 enables OEMs to build high performance digital set-top boxes and other consumer devices. Coupled with our STi5514 set-top box decoder, the ST40GX1 processor provides an ideal platform for future product development.

We entered into new agreements for expanding our leadership position in digital consumer applications on the basis of sales. Along with Alenia Spazio, a global supplier of satellite systems, we demonstrated a working prototype of a jointly developed technology that will greatly enhance the way consumers receive and enjoy interactive TV and other multimedia services in the home. The technology that we are developing allows consumers to obtain interactive TV, video recording and playback, high-speed Internet, video conferencing and other multimedia services via a single satellite dish and a highly sophisticated but low-cost set-top box. In the cable segment, we announced plans with Microtune to jointly develop set-top box reference designs that feature their complementary digital and radio-frequency silicon technologies. Targeted for worldwide markets, the reference designs are engineered to accelerate the deployment of next-generation cable set-top boxes and residential gateways, while offering customers significant time-to-market, competitive and price/performance advantages.

We signed a collaboration agreement with Philips to develop solutions for applying MHP technology in set-top boxes and digital television sets. We will develop and market pre-integrated solutions of the Philips MHP 1.0x Software Platform and our OMEGA family of single-chip digital set-top box decoder platforms. These turnkey solutions for building advanced digital set-top boxes and integrated digital televisions are aimed to dramatically cut back development and production times for consumer electronics manufacturers seeking to build MHP-compliant digital TV receivers.

(ii) The DVD Division. In 2001, following several years of successful cooperation combining Ravisent s DVD software and our OMEGA family of DVD decoder processors, we expanded our ability to provide complete DVD system solutions by acquiring the Consumer Electronics business of Ravisent Technologies. We introduced two System-on-Chip (SoC) devices to address the growing mainstream DVD (Digital Versatile Disk) and emerging Audio/DVD markets

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for highly integrated audio features and processing capability. The STi5580, an enhanced version of the STi5508 announced in year 2000, and the lower-cost STi5519 integrate advanced audio functions such as a new stereo channel and a strengthened decoding capability for digital home theater systems, including DTS (Digital Theatre System) format. We introduced the L6315, which uses leading-edge 0.18-micron CMOS production technology to integrate all of the functions required in the front end of DVD players, including analog preprocessing, servo control, channel decoding and error correction. Optimized for use with our OMEGA (STi55xx) DVD back-end decoders, the new chip sets allow us to offer a highly-integrated solution for DVD players.

- (iii) The TV Division. We address both the analog and digital television markets with a wide range of highly integrated ASSPs and application-specific microcontrollers. We introduced the STi7020, the world s most advanced HDTV (high-definition television) decoder IC. The STi7020 brings an unprecedented level of integration, containing multiple-stream MPEG HD/SD video decoding, audio decoding, a powerful 2D/3D graphics subsystem and numerous ancillary functions. We introduced the STV0360, a single-chip COFDM (Coded Orthogonal Frequency-Division Multiplexing) demodulator that includes an integrated high-performance A/D Converter and performs all of the demodulation functions required to extract the MPEG transport stream from the tuner IF output and connects seamlessly to our OMEGA back-end chips. We also introduced a new hardware and software platform that bridges the gap between conventional analog TV and the forthcoming digital TV technology. Called CTV100, the initial platform comprises a two-chip kit (STV2310 and STV3500) and associated software that provides a highly integrated and cost-effective solution for 2H (100Hz or Progressive scan) TV manufacturers. The CTV100 platform leverages the worldwide success of our family of set-top box and DVD chips and paves the way for future families of optimized IDTV (Integrated Digital TV) solutions.
- (iv) Imaging and Display Division. Our Imaging and Display Division focuses on video camera recorders, monitors and flat-panel displays and image capturing and transmission. In 2001, we introduced a highly integrated digital color microcamera suited for the next generation of cellular telephones, personal digital assistants and other portable communication devices. We announced a new generation of Display-Engine ICs aimed at the rapidly growing markets based on fixed-resolution flat-panel displays. Key applications are desktop LCD monitors and smart panels, LCD projectors, plasma and rear-projection televisions. We announced an agreement to develop driver devices for light-emitting polymer (LEP) displays with Cambridge Display Technology (CDT). CDT has licensed to us certain know-how for the design and development of display driver devices that will be offered to LEP display manufacturers. We signed a letter of intent with Imagination Technologies for the co-development of a mobile multimedia entertainment platform. Our Pocket Multimedia (PMM) platform targets handheld entertainment applications such as audio and video playback and 3D gaming with stringent power-consumption requirements. This platform is conceived to enable OEMs to design cost-effective devices based on a proven set of IP for battery-powered applications and to secure short time-to-volume production.
- (v) Graphic Products Division. In February 2002, we announced that we are withdrawing from the PC Graphics Accelerator IC market, which accounted for approximately \$15 million of our 2001 revenues.

Microcontroller Group.

This group provides competitive, high-volume 8- and 16- bit microcontrollers for all major application segments. This family of products has been developed with a wide portfolio of processes capable of embedding nonvolatile memories such as EPROM, EEPROM and Flash memories. In 2001, we announced the launch of a new embedded-controller platform, known as FIVE, that seamlessly integrates all the benefits of microcontrollers, together with a dedicated architecture, the Decision Processor, oriented to high-level algorithms and a visual programming approach. The new family of Intelligent Controller Units (ICU) provides unprecedented price/performance benefits at low voltage while simultaneously supporting fast time-to-market and easy product enhancement and differentiation in battery-powered devices, domestic appliances, industrial control systems and similar markets that require cost-effective embedded microcontrollers.

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Expanding on our cooperation with Hitachi on advanced SuperH reduced instruction set computing (RISC) cores, we formed a jointly controlled independent company, SuperH, Inc. In addition to licensing SuperH cores on the open market, SuperH will complete the final development of the 64-bit SH-5 core and take over development of the SH-6 and SH-7 cores. SuperH launched commercial operations in the third quarter 2001. We announced that a microprocessor based on the SuperHTM SH-4 32-bit core is now available in volume. The ST40RA166 runs Windows CE 3.0, Microsoft is real-time embedded operating system for 32-bit connected mobile devices that demand rich applications and services. Windows CE 3.0 offers embedded developers a broad set of capabilities including rich multimedia and connectivity options as well as a comprehensive toolset for quickly and easily developing smart mobile devices.

Memory Products Group

The Memory Products Group (MPG) designs, develops and manufactures a broad range of semiconductor memory products but does not produce DRAMs.

Our Memory Products Group is organized into the following divisions: (i) Flash memories; (ii) Smartcard products; (iii) EPROMs; (iv) EEPROMs; (v) NVRAM and dedicated memories; (vi) SRAM and (vii) Programmable Systems Memories (PSM).

- (i) Flash Memories. According to published industry data, in 2001, the TAM (total available market) for Flash memories decreased by 28.6% after having doubled in 2000. Our Flash sales increased 5% in 2001 compared to 2000 after having tripled in 2000. According to WSTS, in the fourth quarter 2001, our market share in Flash memories exceeded 10%. This is due to advanced process technologies, partnerships with new customers, new product development and state-of-the-art manufacturing facilities. Flash memories must have many capabilities because they are used in a wide variety of applications, each with different requirements and thus are more comparable to dedicated products than pure standard products. We offer a broad variety of Flash memories, which we sell to customers in different fields, such as wireless telephony, digital consumer, automotive and computer products. For example, we currently supply single voltage (down to 1.8 volt) NOR cell structure Flash memory products up to 64 Mbit to the mobile phone market, and we are now successfully using multi-bit/cell technology. In 2001, we began sampling 64-Mbit devices built in 0.15 micron technology and optimized for cellular phone usage and are currently ramping up volume production. In 2002, we are also beginning to sample 64 Mbit devices built in 0.13 micron technology. In addition, we began ramping up production of our dedicated Flash memories for Firmware Hub BIOS applications, which are now qualified at most PC desktop and notebook manufacturers. Manufacturers and customers also received samples of a new 8-Mbit device for PC Bios applications and 16-Mbit automotive products.
- (ii) Smartcard Products. Smartcards are card devices containing integrated circuits that store data and provide an array of security capabilities. They are used in a wide and growing variety of applications, including public pay telephone systems, cellular telephone systems and bank cards (primarily in Europe), as well as pay television systems (primarily in the United States, United Kingdom and France). Other applications include medical record applications, card-access security systems, toll-payment secure transactions over the Internet and ID/passport cards applications. In 2001, we introduced a chipset that simplifies the design of contactless Smartcard readers, stimulating growth of new contactless Smartcard applications such as access control, ticketing systems, E-purse and ID cards. In the third quarter 2001, we introduced three new products, including a device that combines large on-chip memory, high-powered cryptographic processing with a contactless communications interface. We have also received the first volume production orders for this device for a Japanese governmental card, one of the world s first uses of smart cards for this type of application. We have also been deeply involved in VISA s initiative to promote Smartcard solutions through the \$1 card initiative.

We are currently developing biometric solutions based on fingerprint recognition. We announced that we are supplying our TouchChipTM biometric hardware for a new laptop computer developed by Samsung. The laptop will contain an integrated TouchChipTM fingerprint sensor and our Protector SuiteTM original equipment manufacturer (OEM) software, which offers sophisticated and easy-to-

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use tools for securing computers and protecting private data through the use of robust biometric technology.

We announced another milestone in the security field with Hyundai Smart Technologies for the world s first VSDC (VISA Smart Debit/Credit) Technology Level 3 approved dual-interface multi-application Smartcard. This card is expected to accelerate the migration to chip-based EMV (Eurocard Mastercard Visa) compliant cards with the addition of a contactless interface for new applications, while maintaining an extremely high security level that is recognized worldwide.

- (iii) EPROMs. We produce a broad range of EPROMs, from 16 Kbit to 32 Mbit. The EPROM market is relatively mature. We have succeeded in reinforcing our market leadership because of our EPROM technology, which has allowed us to build one of the broadest product portfolios currently offered in the market. At the same time, this technology has permitted continuous improvement of manufacturing yields and reduction of die size, giving us an advantageous cost position. Efficient manufacturing in our Singapore assembly plant, together with our sales and distribution channels, has contributed to the exploitation of our technological advantage.
- (iv) *EEPROMs*. We offer serial EEPROMs up to 512 Kbit. Serial EEPROMs are the most popular type of EEPROMs and are popular in computer, automotive and consumer applications. Building on our technical prowess and manufacturing know-how, we continue to build on our advantages and intend to work closely with our key customers and strategic allies to identify and develop added-value application-specific memories.
- (v) NVRAM and Dedicated Memories. We are producing a wide range of nonvolatile RAMs (battery backed-up SRAM) used in computers, industrial and telecommunications equipment. We are also extending our range with new Real Time Clock (RTO) and static random access memory (SRAM) supervisors families.
- (vi) *SRAM.* We have introduced a range of low power SRAM-products from 256k to 8-Mbit in various voltages. These are aimed primarily at satisfying the memory requirements of wireless applications, as a complement of our Flash offerings, specifically to stack them together with Flash in the same multi-chip package.
- (vii) Programmable System Memories (PSM). Our strategy of developing innovative, differentiated and value-added products allows us to offer configurable memory systems, integrating multiple memory types and control logic.

Discrete and Standard ICs Group

The Discrete and Standard ICs Group (DSG) designs, develops and manufactures discrete power devices, power transistors, standard linear and logic ICs, and radio frequency products.

Our discrete and standard products are manufactured using mature technology processes. Although such products are less capital-intensive than our other principal products, we are continuously improving product performance and developing new product features. We have a diverse customer base, and a large percentage of our discrete and standard products are sold through distributors.

(i) Discrete Power Devices. We manufacture and sell a variety of discrete power devices, including rectifiers, protection devices and thyristors (SCRs and triacs). Our devices are used in various applications, including telecommunications systems (telephone sets, modems and line cards), household appliances and industrial systems (motor control and power control devices). More specifically, rectifiers are used in voltage converters and voltage regulators, protection devices to protect electronic equipment from power supply spikes or surges, and thyristors vary current flows through a variety of electrical devices, including lamps and household appliances. We offer a highly successful range of standard products built with our proprietary Application Specific Discretes (ASDTM) technology, which allows a variety of discrete structures to be merged into a single device optimized for specific applications such as EMI filtering for cellular phones. We have recently started development of electronic devices integrating both passive and active components on the same chip (IPAD: Integrated Passive and Active Devices).

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(ii) Power Transistors. We design, manufacture and sell power transistors, which (like our discrete power devices) operate at high current and voltage levels in a variety of switching and pulse-mode systems. We have three power transistor divisions: bipolar transistors, power MOSFETs (metal-oxide-silicon field effect transistors) and new power transistors such as insulated gate bipolar transistors (IGBTs).

Our bipolar power transistors are used in a variety of high-speed, high-voltage applications, including SMPS (switch-mode power supply) systems, television/monitor deflection circuits and lighting systems.

We also offer a family of VIPower (vertical integration power) products, as well as omnifets and application-specific devices. VIPower products exhibit the operating characteristics of power transistors while incorporating full thermal, short-circuit and overcurrent protection and allowing logic-level input. VIPower products are used in consumer goods (lamp ballasts) and automotive products (ignition circuits, central locking systems and transmission circuits). Omnifets are power MOSFETs with fully integrated protection devices for a variety of sophisticated automotive and industrial applications. Application-specific devices are semicustom ICs that integrate diodes, rectifiers and thyristors on the same chip, thereby providing cost-effective and space-saving components with a short design time.

- (iii) Standard Logic and Linear ICs. We produce a variety of bipolar and HCMOS (high-speed complimentary metal oxide silicon) logic devices, including clocks, registers, gates and latches. Such devices are used in a wide variety of applications, including increasingly in portable computers, computer networks and telecommunications systems. We also offer standard linear ICs covering a variety of applications, including amplifiers, comparators, decoders, detectors, filters, modulators, multipliers and voltage regulators.
- (iv) Radio Frequency Products. We supply components for radio frequency (RF) transmission systems used in television broadcasting equipment, radar systems, telecommunications systems and avionic equipment. We are targeting new applications for our RF products, including two-way wireless communications systems (in particular, cellular telephone systems) and commercial radio communication networks for business and government applications.

Strategic Alliances

We believe that strategic alliances are critical to success in the semiconductor industry, and we have entered into strategic alliances with customers, other semiconductor manufacturers and major suppliers of design software. We have entered into several strategic customer alliances, including alliances with Alcatel, Bosch, Hewlett-Packard, Marelli, Nokia, Nortel Networks, Pioneer, Seagate Technology, Siemens VDO, Thomson Multimedia and Western Digital, among others. Customer alliances provide us with valuable systems and application know-how and access to markets for key products, while allowing our customers to share some of the risks of product development with us and to gain access to our process technologies and manufacturing infrastructure.

Alliances with other semiconductor manufacturers permit costly research and development and manufacturing resources to be shared to mutual advantage for joint technology development. We have been collaborating with Philips Semiconductors for the joint development of CMOS process technologies in Crolles, France, since 1992. We recently announced the signature of a memorandum of understanding relating to the future participation of Motorola in our research and development cooperation with Philips Semiconductors in Crolles, France, for the joint development of CMOS process technology to provide 90 nanometer to 32 namometer chip technologies on 300mm wafers, as well as the building and operations of a 300mm wafer pilot line fab in Crolles, France. This announcement followed an earlier joint announcement with Philips Semiconductors in March 2002 regarding the participation of TSMC in our joint research and development effort in Crolles, France.

We have recently entered into a strategic alliance with Dai Nippon Printing Co, Ltd., a leading manufacturer of photomasks, for the development and supply of leading-edge and high-end photomasks which are critical components in the manufacture of silicon integrated circuits. As part of this agreement, a new company named DNP Photomask Europe will build and operate a photomask production facility close to our site in Agrate, Italy. The new plant is expected to start operations in mid-2003, and capital investment by the new company is expected to be approximately \$150 million over three years. We will have an equity interest of less than 20% in the new company. The close proximity of the planned site to our existing research and development and manufacturing centers in Crolles, France and Agrate, Italy, which are dedicated to complex System-on-Chip and Flash memory chips, coupled with barrier-free exchange of information on wafer and photomask processes, are expected to ensure rapid turn-around of new photomasks for products built using the most advanced technologies, from 130 and 90 nanometers and beyond.

We have established joint development programs with leading suppliers such as Air Liquide, Applied Materials, ASM Lithography, Canon, Hewlett-Packard, KLA-Tencor, LAM Research, MEMC, Schlumberger, Teradyne and Wacker and with computer-aided design (CAD) tool producers, including Cadence, Co Ware and Synopsys. We are a participant in Sematech I 300I for the

development of 300mm wafer manufacturing processes.

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We are active in joint European research efforts such as the MEDEA program, and also cooperate with major research institutions and universities.

Customers and Applications

We design, develop, manufacture and market over 3,000 main types of products that we sell to approximately 800 direct customers. We also sell our products through distributors. Major customers include Alcatel, Bosch, DaimlerChrysler, Delta, Delphi, Ericsson, Gemplus, Hewlett-Packard, Kenwood, Marelli, Matsushita, Motorola, Nokia, Nortel Networks, Philips, Pioneer, Samsung, Schlumberger, Scientific Atlanta, Seagate Technology, Siemens, Sony, Thomson Multimedia and Western Digital. To many of our key customers we provide a wide range of products, including dedicated products, discrete devices, memory products and programmable products. Our position as a strategic supplier of application-specific products to certain customers fosters close relationships that provide us with opportunities to supply such customers requirements for other products, including discrete devices, programmable products and memory products.

The following table sets forth certain of our significant customers and certain applications for our products:

Telecommunications

Customers: Alcatel Lucent Technologies Motorola Philips Ericsson Marconi Nokia Sagem

Ericsson Marconi Nokia Sagem Italtel Matsushita Nortel Networks Siemens

Applications: Central office switching systems Telephone terminals (wireline and wireless)

Digital cellular telephones Internet access (xDSL)

Wireless networking (Bluetooth)

Data transport (routing, switching for electronic

and optical networks)

Computer Systems

Customers: