

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K

(MARK ONE)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF
THE SECURITIES EXCHANGE ACT OF 1934
FOR THE FISCAL YEAR ENDED JUNE 30, 2001

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934
COMMISSION FILE NUMBER - 000-23599

MERCURY COMPUTER SYSTEMS, INC.
(Exact name of registrant as specified in its charter)

MASSACHUSETTS
(State or other jurisdiction of
Incorporation or organization)

04-2741391
(I.R.S. Employer
Identification No.)

199 RIVERNECK ROAD, CHELMSFORD MASSACHUSETTS
(Address of principal executive offices)

01824
(Zip code)

(978) 256-1300
(Registrant's telephone number
including area code)

NASDAQ NATIONAL MARKET
(Name exchange on which registered)

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE
SECURITIES EXCHANGE ACT OF 1934:
None

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE
SECURITIES EXCHANGE ACT OF 1934:
Common Stock, Par Value \$.01 Per Share

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Aggregate market value of Registrant's voting stock held by non-affiliates of the Registrant as of August 31, 2001: \$595,407,374.

Shares of Common Stock outstanding as of August 31, 2001: 21,889,977 shares

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's definitive Proxy Statement for its special meeting in lieu of the 2001 Annual Meeting of Stockholders to be held on November 15, 2001 (the "Proxy Statement") are incorporated by reference into Part III of this report.

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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PART I

ITEM 1. BUSINESS

OVERVIEW

Mercury Computer Systems, Inc. (the "Company" or "Mercury") designs, manufactures and markets high performance, real-time digital signal and image processing computer systems that transform sensor generated data into information which can be displayed as images for human interpretation or subjected to additional computer analysis. These multicomputer systems are heterogeneous and scalable, allowing them to accommodate several different microprocessor types and to scale from a few to hundreds of microprocessors within a single system. Mercury's system architecture is specifically designed for digital signal processing ("DSP") and image processing applications, which are typically computation intensive and require I/O capacity and interprocessor bandwidth not available on a general purpose PC or workstation.

The two primary markets for Mercury's products are defense electronics and medical diagnostic imaging markets. Both of these markets have computing needs which benefit from the unique system architecture developed by the Company. Mercury's computer systems are generally used on real-world sensor-generated data to enable a military commander to "see" the battle space through natural barriers such as clouds, darkness, water or foliage, so that the position and strength of the enemy can be determined, or to enable a physician to "see" within the body instead of performing invasive surgery.

During the past several years, the majority of the Company's revenues have been generated from sales of its products to the defense electronics market, generally for use in reconnaissance and intelligence gathering systems. The Company's activities in this area have focused on the proof of concept, development and deployment of advanced military applications in radar, sonar and airborne surveillance. The Company has established relationships with many of the major prime contractors to the worldwide defense industry, including Lockheed Martin Corporation, Raytheon Systems Company, Northrop Grumman Corporation, MIT/Lincoln Laboratory, Alenia Marconi Systems, Ericsson Microwave Systems AB, Mitsubishi Electronics, BAE Systems, UK's Defense Evaluation and Research Agency, and NEC.

Medical diagnostic imaging is the other primary market currently served by the Company. Mercury's computer systems are embedded in Magnetic Resonance Imaging ("MRI"), Computed Tomography ("CT"), Positron Emission Tomography ("PET"), and digital x-ray machines. Mercury has supplied computer systems for use in several of GE Medical Systems' diagnostic imaging systems since 1987, and has established relationships with Siemens Medical Systems, Inc., Philips Medical Systems Nederland BV, and Marconi Medical Systems, Israel Ltd. The major medical imaging manufacturers are currently developing the next generation of MRI, CT and digital x-ray machines, which are expected to provide better performance at lower cost. Mercury has secured design wins on programs with certain of the major medical imaging manufacturers for their next generation MRI, and digital x-ray machines.

Mercury's systems are currently embedded within semiconductor photomask generation systems manufactured by Micronic Laser Systems AB of Sweden, and semiconductor wafer inspection systems manufactured by Schlumberger Semiconductor Solutions. In addition, Mercury has secured multiple design wins in additional next-generation semiconductor imaging applications.

Mercury's computer systems are designed to process continuous streams of data from sensors attached to radar, sonar, medical imaging equipment and other devices. The resulting image is transmitted to the battlefield commander, pilot, technician or physician in order to assist in decision making or diagnostic processes. Due to the nature of the applications in which many of Mercury's computer systems are embedded, they are frequently confined in limited spaces and therefore are designed to generate a minimum amount of heat. The Company employs the RACEway Interconnect, an industry standard system area network developed by Mercury, which allows for high interprocessor communication and data processing bandwidth and I/O capacity. The Company uses its proprietary ASICs to integrate microprocessors, memory and related components into the RACEway Interconnect fabric to provide optimum system performance. The Company uses multiple industry standard processors, such as Motorola's PowerPC, in the same system. The Company believes that the RACEway Interconnect and its proprietary ASICs, working together with a group of mixed microprocessors in the same system, allow the most efficient use of space and power with an optimal price/performance ratio.

INDUSTRY BACKGROUND

Defense Electronics

Digital signal and image processing computer systems are embedded into air, sea and land-based platforms for processing radar, sonar and signal intelligence applications. The Company believes that an important factor underlying the development of this market is a continuing desire by military commanders for increased battle space information, which can be obtained through radar, sonar, signal intelligence and image intelligence systems. Military commanders also need more powerful computers with similar attributes in order to conduct dynamic battle simulations and mission planning tasks utilizing today's complex weapons systems.

Another important trend in the defense electronics marketplace is the movement away from so-called "stove pipe" systems designed by prime contractors with special purpose hardware specifically for a single application, largely without regard to cost. The market is moving toward the use of systems which incorporate selected commercial-off-the-shelf ("COTS") hardware and software components in order to save money and development time. The Department of Defense ("DOD") leaders and federal regulations have mandated widespread use of COTS components in defense electronics applications. All of Mercury's computer systems are eligible for use in defense electronics applications as COTS components.

Medical Imaging

The principal modalities of medical diagnostic imaging systems include MRI, CT, digital x-ray, PET, SPECT (single photon emission computed tomography) and ultrasound devices. The Company believes that demand for medical diagnostic imaging equipment will increase modestly over the next few years, fueled by the introduction of next-generation devices, together with the anticipated future development by the major medical imaging manufacturers of new international markets for their diagnostic equipment. The Company believes medical imaging equipment manufacturers will continue to replace in-house designed digital signal and image processing systems with commercially available systems designed by the Company and others.

This industry demand is driven in part by the need to provide physicians with rapid, sharp and clear images of areas of a patient's body suspected to be diseased or injured, while using the least intrusive means. These images provide a significant diagnostic tool for the physician, who can more readily understand the patient's malady and prescribe appropriate corrective action. In order to provide such images, medical imaging machines must be capable of processing a continuous stream of data on a real-time basis. A parallel concern in the health care industry is the need to reduce costs. Hospitals, in particular, continue to be under significant pressure to contain costs and, at the same time, maintain quality of care. Such pressures are forcing hospitals to be as technologically efficient as possible. Toward this end, hospitals seek to reduce the required period of time a patient must spend in their medical imaging machines, which has the added benefit of increasing the total number of patients who can be diagnosed with this expensive equipment during a given period of time. One way to reduce patient time in medical imaging machines and improve image quality is to utilize more powerful signal processing computers, such as those supplied by Mercury.

MARKETS AND CUSTOMERS

Defense Electronics

Mercury provides high performance embedded computer systems as standard products to the defense electronics market by using commercial and selected rugged components and by working closely with defense contractors to complete a design which matches the specified requirements of military applications. The Company engages in frequent, detailed communication with the end users of Mercury's systems, military executives and program managers in government and defense contractors regarding the technical capabilities of Mercury's advanced signal processing computers and the successful incorporation of its computers in numerous military programs.

Mercury employs industry specialist managers to monitor the defense programs of each major branch of the United States armed services and additional managers based in Europe and Japan to keep abreast of developments in their respective regions. This approach provides relevant information to Mercury regarding major military procurements worldwide. Mercury maintains sales and technical support groups to service defense industry participants in six branch offices in the United States, and through Mercury's subsidiary offices or distributors in 11 other countries. At Mercury's headquarters in Chelmsford, Massachusetts, a group of systems engineers specializing in radar, sonar and surveillance problems provides support on an as-needed basis to the remote offices to assist in securing inclusion in targeted military programs.

Medical Imaging

Mercury strives to provide a superior combination of high performance and competitively priced embedded computer systems to the medical imaging market. The Company focuses on establishing strong relationships with its customers, the medical equipment manufacturers. By maintaining frequent, in-depth communications with its customers and working closely with their engineering groups, the Company is able to understand their needs and provide appropriate solutions. In addition, the Company intends to continue its efforts to install its computer systems in place of alternative designs created by the in-house design teams employed by the medical imaging equipment manufacturers.

The Company currently is working closely with major medical equipment companies to design the next generation of MRI and digital x-ray systems, which the Company believes will lead to faster time-to-market and competitive advantages for the medical equipment companies that use Mercury's computer systems for inclusion in their imaging machines. Mercury's industrial PC class hardware system provides the medical imaging industry with increased performance densities at lower costs and an architecture that

accommodates performance upgrades as new technology becomes available. Integrating the high-bandwidth RACEway Interconnect system area network within the PCI environment results in highly scalable systems. This allows medical equipment suppliers to design systems that can satisfy a broad range of price/performance requirements and meet the needs of global markets, all with the same Mercury architecture.

Mercury's medical OEM customers consist of the leading manufacturers of diagnostic imaging equipment. They include GE Medical, headquartered in Wisconsin, GE Medical Systems Europe in France, GE Yokogawa Medical Systems in Japan, Siemens Medical in Germany, Philips Medical in the Netherlands, and Marconi Medical in Israel. These companies have adopted Mercury's PCI or VME computer systems as part of their developments in either MRI, CT, or digital x-ray systems and, in the case of some companies, multiple types of systems. The Company has supplied GE Medical with computer systems for use in three successive generations of MRI machines from 1987 through the present, as well as for use in other GE Medical equipment, such as PET.

The Company believes that the principal reason for its medical imaging design wins is Mercury's experienced team of systems and applications engineers who work closely with the medical equipment designers and with the Company's product development engineers. This joint design effort frequently precedes the first production orders by approximately two to three years. However, once selected, the production contracts typically continue for the life of the medical imaging system. In addition, the equipment manufacturers typically offer computer system upgrades to their customers, potentially resulting in additional sales of Mercury products.

AgileVision

On September 1, 1999, the Company formed AgileVision LLC, a joint venture with the Sarnoff Corporation. The venture will use Mercury technology to design, develop, and deliver products and solutions expected to dramatically reduce the cost of digital TV infrastructure for the broadcast and cable markets. The many business uncertainties that attend the new venture make revenue projections at this time inappropriate. Mercury's share of losses is reported as a separate line item in its profit and loss statement.

Wireless Communications

During the fourth quarter of fiscal 1999, the Company announced that it will pursue the wireless communications opportunity internally, offering its technology and expertise to manufacturers for incorporation within next generation base stations that require substantially more flexible and powerful signal processing capabilities. Returns on Mercury's investments in fiscal 2000, 2001, and 2002 would not begin before fiscal 2003. The market opportunity however, is very large, amounting to several hundred millions of dollars annually, and it represents an OEM business model, which Mercury understands well. In this past year, Mercury has carried out extensive activities creating a business development plan that merges its future technology with the processing requirements of the evolving wireless infrastructure, designing, manufacturing and testing a prototype communications computer for use in demonstrating the Company's capabilities, and a simulation system for testing the results of incorporating Mercury's intellectual property into a base station.

KEY TECHNOLOGY COMPETENCIES

Many of Mercury's customers share a common requirement: the need to process high-volume, real-time digital data streams. Whether from an antenna in a defense application or a medical scanner, the computer must have the ability to process incoming data as quickly as it is received. Data rates can range from a few to several hundreds of megabytes per second (or several billion bits per second). The ability to process this continuous flow of high-bandwidth data is a fundamental difference between the majority of computing systems in the world (such as personal computers, workstations and servers) and the computers built by Mercury.

Mercury has developed a set of core technical strengths specifically targeted to, and defined by, the application areas of signal, image and digital media processing. These technical strengths are pivotal to Mercury's success in the real-time market segments of the defense electronics, medical imaging, and semiconductor imaging industries and have resulted in the following developments and capabilities:

Heterogeneous Switched-Fabric Interconnects. Mercury connects different microprocessor types (RISC, DSP and specialized computing devices) and I/O devices in a bus-less, high-bandwidth manner based on multi-stage switches in its system area network. Among the engineering developments which distinguish Mercury's systems are the RACEway Interconnect built using the multi-port RACEway crossbar chip which supports high bandwidth point-to-point data transfers and fibre channel chassis-to-chassis extensions for RACEway in large system configurations.

Heterogeneous Processor Integration. Mercury has developed several ASICs which integrate standard microprocessors and special purpose mathematics and graphics processors into a single heterogeneous environment. Mercury develops systems consisting of different microprocessor types with a single-system software model. Mercury's processor independent software offers a consistent set

of software tools and interfaces, which can drive a heterogeneous mix of microprocessor types, such as Motorola's PowerPC processor and Analog Devices' SHARC DSP processor.

Performance Density. The Company has been using high performance packaging technology such as multi-chip modules and ball grid arrays in its systems since the early 1990's. The Company's thermal analysis expertise allows it to design products that optimize the dissipation of heat from the system in order to meet the environmental constraints imposed by many of its customers' applications. The Company's modular hardware and software building blocks allow it to design systems that best meet the application's specific data profiles. All together, these attributes combine to deliver the maximum performance in processing, reliability and bandwidth in the smallest possible space.

Scalable Software. Mercury's software has been designed to scale to nearly one thousand processors in real-time environments while maintaining a high-bandwidth capability. Regardless of the number of processors, the Company's software provides the same programming environment for a software developer working with Mercury's computer systems, allowing faster time-to-market and lower life cycle maintenance costs for its customers.

Optimized Algorithm Development. Mercury specializes in algorithm development for single and multi-processor implementations. The Company believes that using the mathematical algorithms in Mercury's scientific algorithm library significantly increases the performance of customers' applications, reduces development time and minimizes life cycle support costs.

System Engineering Expertise. Mercury has established a core competency in providing total system solutions to its customers. The Company has the knowledge and technical staff to act as an extension of the customer's engineering organization in order to fashion solutions to some of the world's most demanding real-time, signal processing applications. Mercury has partnered with its customers to understand and resolve the challenging problems encountered in applications as diverse as radar, sonar and signal intelligence for the military, and diagnostic imaging for MRI, CT, PET and digital x-ray in the medical imaging market. The Company also provides an integration and development service to meet the demands of its customers with advanced applications that cannot be satisfied with standard products. This service combines the variety of standard products with custom hardware and software to meet the specific configuration demands of an application.

Leverage and Create Standards. Mercury uses existing standards where applicable and has been successful in developing new standards. For example, Mercury adheres to VME and PCI standard bus interfaces and form factors. The RACEway Interconnect system area network that Mercury developed was adopted as an ANSI/VITA standard in 1995, and since then has been adopted by several companies offering products and services for embedded real-time applications.

PRODUCTS

HARDWARE PRODUCTS

Mercury offers three classes of systems for the Company's target markets. Each class of product is scalable to meet the full range of requirements in signal processing applications.

High Performance Class. For the highest-performance applications, Mercury offers a family of high performance systems for the most compute intensive, I/O capacity and interprocessor bandwidth demanding applications in the defense electronics market. These applications include space time adaptive processing, ground-penetrating and foliage-penetrating radar and synthetic aperture radar. These high-performance systems, known as MultiPort(TM) and PowerStream(TM), can scale to a thousand processors and today include compute modules based on the PowerPC processors.

VME Class. The VME bus has been the traditional standard for many embedded applications. Mercury's VME systems each support RACEway Interconnect. Systems contain modules based on the PowerPC and i860 processors and can scale to several hundred processors. The VME-based systems and components are primarily used in the defense market where backward and forward compatibility is required for the long system life cycles of military equipment. This class of RACE Series, and RACE++ Series systems meets the computing speed, bandwidth and scalability requirements of many of today's medium performance radar, sonar and signal intelligence applications. Advanced and future radar systems are more likely to use the high performance class systems.

Industrial PC Class. Based on the PCI bus standard, these systems use the RACEway Interconnect to provide the extended bandwidth required for real-time applications. Currently, Mercury provides compute modules based on the PowerPC processors. The VantageRT(TM) systems scale to hundreds of processors and are directed to the medical imaging and commercial OEM solutions markets, which are moving from VME to PCI based designs.

SOFTWARE PRODUCTS

Mercury has developed a comprehensive line of signal processing software products for the defense, medical imaging, and other commercial markets. Certain of Mercury's software products are included in a heterogeneous development software package that enables customers to develop application software that will run on Mercury hardware. The development software package includes the MC/OS operating system, scientific algorithm libraries, debugging tools and compilers. License fees range from \$10,000 to \$50,000 based on the number of seats chosen by the user for its application, ranging from a single user license to a project license.

Set forth below are certain signal processing software products offered by the Company.

MC/OS Run-Time Environment. The MC/OS runtime operating environment allows maximum use of the RACE heterogeneous multi-computer architecture in a single-system model incorporating a consistent set of system and application programming interfaces, and a common development environment. MC/OS is supported on the high performance, VME and industrial PC classes of Mercury hardware systems. MC/OS is included in Mercury's development software package.

Scientific Algorithm Library (SAL). SAL comprises more than 400 assembly language routines optimized for specific target processors including Motorola's PowerPC 7400 with AltiVec technology. These SAL routines include functions for vector processing, FFTs, and data conversion.

Vector Signal and Image Processing Library (VSIPL). A subset of the SAL library has been restructured to conform to the VSIPL Standard. VSIPL-Lite implements the VSIPL Core Lite function profile of the standard, which contains the 125 most common functions for real-time signal processing. With a performance that nearly equals SAL, VSIPL-Lite is a prime example of how Mercury maintains a focus on performance while achieving portability through standards.

Parallel Application System (PAS). PAS is a set of high performance libraries which form a complete programming environment for developing parallel applications in a distributed memory multicomputer system. The libraries speed the development of advanced applications using many processors in parallel. PAS is included in Mercury's development software package.

RACE++(TM) Series MULTI(R) Integrated Development Environment (IDE). The RACE++ Series MULTI IDE brings mainstream software development tools to the challenge of developing real-time multicomputing solutions. With the MULTI IDE, developers can create real-time multiprocessing routines using familiar, industry-leading, graphical tools from Green Hills Software, the leader in embedded mainstream software development tools and languages. The MULTI IDE features integrated tools including the Language-Sensitive Text Editor, Project Builder, and Source-Level Debugger, and supports open standards including ELF/DWARF, ANSI C and C++, and PowerPC EABI.

TATL(TM) Trace Analysis Tool and Library. TATL is a system-level performance analyzer and debugger that provides insight into complex multiprocessor interactions in real-time systems. TATL works through the use of a low-overhead event logging library during runtime and a powerful visualization tool for off-line analysis of the dynamic communications, control, and dependencies in the system. Because TATL is both powerful and easy to use, there is a very short "time to insight."

ENGINEERING, RESEARCH AND DEVELOPMENT

The Company's engineering, research and development efforts are focused on developing new products as well as enhancing existing products. Mercury's research and development goal is to fully exploit and maintain the Company's technological lead in the high performance, real-time, signal processing industry.

Mercury is involved with researchers from other companies and government organizations to develop new signaling technologies using fiber optics. This has the potential for providing more bandwidth per line than conventional techniques and is directed at the 21st century challenges of the next generation of advanced signal processing systems. Similar cooperative developments are underway to develop open software solutions for code portability. This research is focused on developing generic applications, which can be targeted to Mercury's products through the use of industry standard tools with Mercury-specific libraries. Some of these research areas benefit from cost sharing through Defense Advanced Research Projects Agency (DARPA) grants in those areas where the DOD will obtain benefit from the development.

As of June 30, 2001, the Company had 206 people primarily engaged in engineering, research and development, including hardware and software architects, design engineers and engineers with expertise in developing medical, defense and other commercial software systems. During fiscal years 2001, 2000 and 1999, the Company's total research and development costs were approximately \$30.5 million, \$28.9 million, and \$20.7 million, respectively.

CUSTOMER SUPPORT AND INTEGRATION

Mercury's Customer Services Group is engaged in a full range of support functions, including training, technical program management, integration and design services, host porting services and traditional maintenance and support services. The Company has invested in the range of tools, analyzers, simulators, instruments and workstations to provide a rapid response to both development and customer support requirements. Within the Customer Services Group, the solutions systems department has developed many custom interfaces, reviewed customers' designs, developed special hardware and software components and provided program management on behalf of defense and medical customers. The capabilities of this group enable the Company to respond to the demanding individuality of many programs and have resulted in Mercury being selected for both development, high volume production and deployed programs.

MANUFACTURING AND TESTING

Mercury's strengths include the design, development and testing of products which meet the exacting technology and quality expectations of the Company's defense electronics and medical imaging customers. Board assembly is outsourced to a number of electronic contract manufacturers. The supplier typically inserts most of the components into a printed circuit board, solders the connections, conducts preliminary testing and returns the boards to Mercury. The Company conducts final assembly, burn-in and system level testing.

Mercury utilizes Optimal Supply Chain Management to provide highly flexible manufacturing solutions which can be tailored to the specific needs of the Company's customers, while maintaining the highest level of quality and control of product assembly. This standard is maintained through demanding Quality Assurance and Reliability Programs, such as Statistical Process Control, which are integrated throughout the manufacturing process.

The Company's outsourcing strategy provides maximum flexibility to respond to customer requirements and schedule adjustments, with minimal asset investment by Mercury. This outsourcing strategy also provides multiple sources of supply, both to support the breadth and complexity of Mercury's product lines, as well as to ensure continuity of supply. By outsourcing assembly to electronic contract manufacturers, Mercury is able to focus its manufacturing efforts on designing more reliable products, designing more efficient methods of building its products, systems integration, testing and supply chain management.

Mercury's manufacturing approach is based on a highly integrated process that takes a product from concept through production. All products are required to meet specified standards of performance, quality, reliability and safety. The Company manufactures both commercial and rugged versions of its computer systems. Extensive testing is a fundamental part of the Company's process. Computer Integrated Manufacturing, Concurrent Engineering, Material Requirements Planning and Just-In-Time techniques are also integrated into manufacturing operations as part of an on-time delivery philosophy. Mercury has been ISO 9001 certified since 1995.

COMPETITION

The markets for the Company's products are highly competitive and are characterized by rapidly changing technology, frequent product performance improvements and evolving industry standards. Competition typically occurs at the design stage, where the customer evaluates alternative design approaches, including those from internal development organizations. A design win usually ensures a customer will purchase the product until their next generation system is developed. Occasionally, the Company's computer systems compete with computer systems from workstation vendors, all of whom have substantially greater research and development resources, long term guaranteed supply capacity, marketing and financial resources, manufacturing capability and customer support organizations than those of the Company. The Company believes that its future ability to compete effectively will depend, in part, upon its ability to continue to improve product and process technologies and develop new technologies in order to maintain the performance advantages of products and processes relative to competitors, to adapt products and processes to technological changes, to identify and adopt emerging industry standards and to adapt to customer needs.

The principal bases for selection in sales of digital signal processing systems to the defense electronics industry are performance (measured primarily in terms of processing speed, I/O capacity and interprocessor bandwidth, processing density per cubic foot, power consumption and heat dissipation), systems engineering support, overall quality of products and associated services, use of industry standards, ease of use and price. Competitors in the defense electronics industry include a relatively small number of companies that design, manufacture and market DSP board level products and in-house design teams employed by prime defense contractors. In-house design efforts historically have provided a significant amount of competition to the Company. However, competition from in-house design teams has diminished in significance in recent years due to the increasing use of COTS products and the trend toward greater use of outsourcing. Despite this recent change, there can be no assurance that in-house developments will not re-emerge as a major competitive force in the future. Prime contractors are much larger than Mercury and have substantially more resources to invest in research and development. Increased use of in-house design teams by defense contractors in the future may have a material adverse effect on the Company's business, financial condition and results of operations.

In the medical imaging industry the principal bases for selection are performance (measured primarily in terms of processing speed, I/O capacity and interprocessor bandwidth and power consumption), price, systems engineering support, overall quality of products and associated services, use of industry standards and ease of use. Competitors in the medical imaging market include in-house design teams, a small number of companies that design, manufacture and market DSP board level products and workstation manufacturers. Workstations have become a competitive factor primarily in the market for low-end MRI and CT machines and, to date, have not been a significant factor in the high-performance market, Mercury's primary focus. There can be no assurance that workstation manufacturers will not attempt to penetrate the high-performance market for medical imaging machines. Workstation manufacturers typically have greater resources than Mercury and their entry into markets historically targeted by Mercury may have a material adverse effect on the Company's business, financial condition and results of operations.

Some of the Company's competitors have greater financial and other resources than the Company, and the Company may be operating at a cost disadvantage compared to manufacturers who have greater direct buying power from component suppliers or who have lower cost structures. There can be no assurance that the Company will be able to compete successfully in the future with any of these sources of competition. In addition, there can be no assurance that competitive pressures will not result in price erosion, reduced margins, loss of market share or other factors, that could have a material adverse effect on the Company's business, financial condition and results of operations.

INTELLECTUAL PROPERTY AND PROPRIETARY RIGHTS

The Company relies on a combination of patent, copyright, trademark and trade secret laws to establish and protect its rights in its products and proprietary technology. In addition, the Company currently requires its employees and consultants to enter into nondisclosure and assignment of invention agreements to limit use of, access to and distribution of, proprietary information. There can be no assurance that the Company's means of protecting its proprietary rights in the U.S. or abroad will be adequate. The laws of some foreign countries may not protect the Company's proprietary rights as fully or in the same manner as do the laws of the U.S. Also, despite the steps taken by the Company to protect its proprietary rights, it may be possible for unauthorized third parties to copy or reverse engineer aspects of the Company's products, develop similar technology independently or otherwise obtain and use information that the Company regards as proprietary. There can be no assurance that others will not develop technologies similar or superior to the Company's technology or design around the proprietary rights owned by the Company. Although the Company is not aware that its products infringe on the proprietary rights of third parties, there can be no assurance that others will not assert claims of infringement in the future or that, if made, such claims will not be successful. Litigation to determine the validity of any claims, whether or not such litigation is determined in favor of the Company, could result in significant expense to the Company and divert the efforts of the Company's technical and management personnel from daily operations. In the event of any adverse ruling in any litigation regarding intellectual property, the Company may be required to pay substantial damages, discontinue the sale of infringing products, expend significant resources to develop non-infringing technology or obtain licenses to use infringing or substituted technology. The failure to develop, or license on acceptable terms, a substitute technology could have a material adverse effect on the Company's business, financial condition and results of operations.

The Company holds five issued United States patents covering aspects of the RACE architecture. The Company may file additional patent applications seeking protection for other proprietary aspects of its technology in the future. Patent positions frequently are uncertain and involve complex and evolving legal and factual questions. The coverage sought in a patent application either can be denied or significantly reduced before or after the patent is issued. Consequently, there can be no assurance that any patents from pending patent applications or from any future patent application will be issued, that the scope of any patent protection will exclude competitors or provide competitive advantages to the Company, that any of the Company's patents will be held valid if subsequently challenged or that others will not claim rights in or ownership of the patents and other proprietary rights held by the Company. Since patent applications are secret until patents are issued in the United States or corresponding applications are published in other countries, and since publication of discoveries in the scientific or patent literature often lags behind actual discoveries, the Company cannot be certain that it was the first to make the inventions covered by each of its pending patent applications or that it was the first to file patent applications for such inventions. In addition, there can be no assurance that competitors, many of which have substantial resources and have made substantial investments in competing technologies, will not seek to apply for and obtain patents that will prevent, limit or interfere with the Company's ability to make, use or sell its products either in the United States or in international markets.

BACKLOG

As of June 30, 2001, the Company had a backlog of orders aggregating approximately \$39.4 million. The Company includes in its backlog, customer orders for products and services for which it has accepted signed purchase orders with assigned delivery dates within twelve months. Orders included in backlog may be canceled or rescheduled by customers without penalty. A variety of conditions, both specific to the individual customer and generally affecting the customer's industry, may cause customers to cancel,

reduce or delay orders that were previously made or anticipated. The Company cannot assure the timely replacement of canceled, delayed or reduced orders. Significant or numerous cancellations, reductions or delays in orders by a customer or group of customers could materially adversely affect the Company's business, financial condition and results of operations. Backlog should not be relied upon as indicative of the Company's revenues for any future period.

EMPLOYEES

At June 30, 2001, the Company employed a total of 542 persons, including 206 in research and development, 184 in sales, marketing and customer support, 62 in manufacturing and 90 in general and administration. Fourteen of the Company's employees are located in Europe, six in Japan and the remainder in the U.S. None of the Company's employees are represented by a labor organization and the Company believes that its relations with employees are good. Competition for qualified personnel in the engineering fields is intense and the Company is aware that much of its future success will depend on its continued ability to attract and retain qualified personnel. The Company seeks to attract new employees by offering competitive compensation packages, including salary, bonus, stock options and employee benefits. There can be no assurance, however, that the Company will be successful in retaining its key employees or that it will be able to attract skilled personnel for the development of its business.

RISK FACTORS

In this report, as well as in oral statements made by the Company, that are prefaced with the words "may," "will," "expect," "anticipate," "continue," "estimate," "project," "intend," "designed" and similar expressions, are intended to identify forward-looking statements regarding events, conditions and financial trends that may affect the Company's future plans of operations, business strategy, results of operations and financial position. These statements are based on the Company's current expectations and estimates as to prospective events and circumstances about which the Company can give no firm assurance. Further, any forward-looking statement speaks only as of the date on which such statement is made, and the Company undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made. As it is not possible to predict every new factor that may emerge, forward-looking statements should not be relied upon as a prediction of actual future financial condition or results. These forward-looking statements, like any forward-looking statements, involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. Such risks and uncertainties include the factors set forth below.

DEPENDENCE ON DEFENSE ELECTRONICS BUSINESS; UNCERTAINTY ASSOCIATED WITH GOVERNMENT CONTRACTS. Sales of the Company's computer systems to the defense electronics market accounted for approximately 67%, 71%, and 77% of the Company's revenues in fiscal 2001, 2000, and 1999, respectively. Reductions in government spending on programs that incorporate the Company's products could have a material adverse effect on the Company's business, financial condition and results of operations. Moreover, the Company's government contracts and subcontracts are subject to special risks, such as: delays in funding; ability of the government agency to unilaterally terminate the prime contract; reduction or modification in the event of changes in government policies or as the result of budgetary constraints or political changes; increased or unexpected costs under fixed price contracts; and other factors that are not under the control of the Company. In addition, consolidation among defense industry contractors has resulted in fewer contractors with increased bargaining power relative to the Company. No assurance can be given that such increased bargaining power will not adversely affect the Company's business, financial condition or results of operations in the future.

The Company's contracts with the U.S. and foreign governments and their prime and subcontractors are subject to termination either upon default by the Company or at the convenience of the government. Termination for convenience provisions generally entitle the Company to recover costs incurred, settlement expenses and profit on work completed prior to termination. Because the Company contracts to supply goods and services to U.S. and foreign governments it is also subject to other risks, including contract suspensions, protests by disappointed bidders of contract awards which can result in the reopening of the bidding process, changes in governmental policies or regulations or other political factors.

DEPENDENCE ON KEY CUSTOMERS. The Company is dependent on a small number of customers for a large portion of its revenues. In fiscal 2001, Lockheed Martin, Raytheon Systems Company, and GE Medical accounted for 18%, 14%, and 13%, respectively, of the Company's revenues. In fiscal 2000, Raytheon Systems Company, Lockheed Martin, Northrop Grumman Corporation and GE Medical accounted for 19%, 14%, 12% and 12%, respectively, of the Company's revenues. In fiscal 1999, Raytheon Systems Company, Lockheed Martin, and GE Medical accounted for 22%, 16%, and 12%, respectively, of the Company's revenues. The Company's largest customer in the medical imaging market, GE Medical, accounted for 52%, 59%, and 85% of the Company's aggregate sales to the medical imaging market in fiscal 2001, 2000, and 1999, respectively. Customers in the defense electronics market generally purchase the Company's products in connection with government programs that have a limited duration, leading to fluctuating sales to any particular customer in the defense electronics market from year to year. By contrast, many customers in the medical imaging market historically have purchased the Company's products over a number of years for use in successive generations of medical imaging devices, although there can be no assurance that such past behavior will continue in the

future. A significant diminution in the sales to or loss of any of the Company's major customers would have a material adverse effect on the Company's business, financial condition and results of operations. In addition, the Company's revenues are largely dependent upon the ability of its customers to develop and sell products that incorporate the Company's products. No assurance can be given that the Company's customers will not experience financial or other difficulties that could adversely affect their operations and, in turn, the results of operations of the Company.

FLUCTUATIONS IN OPERATING RESULTS. The Company has experienced fluctuations in its results of operations in large part due to the sale by the Company of its computer systems in relatively large dollar amounts to a relatively small number of customers. Operating results also have fluctuated due to competitive pricing programs and volume discounts, the loss of customers, market acceptance of the Company's products, product obsolescence and general economic conditions. In addition, the Company, from time to time, has entered into contracts to engineer a specific solution based on modifications to the Company's standard products (a "development contract"). The Company's gross margins from development contract revenues are typically lower than the Company's gross margins from standard product revenues. The Company intends to continue to enter into development contracts and anticipates that the gross margins associated with development contract revenues will continue to be lower than its gross margins on standard product revenues. The Company expects research and development expenses to continue to increase as the Company continues to develop products to serve its markets, all of which are subject to rapidly changing technology, frequent product performance improvements and evolving industry standards. The ability to deliver superior technological performance on a timely and cost effective basis is a critical factor in securing design wins for future generations of defense electronics and medical imaging systems. Significant research and development spending by the Company does not ensure that the Company's computer systems will be designed into a customer's system. Because future production orders are usually contingent upon securing a design win, the Company's operating results may fluctuate due to either obtaining or failing to obtain design wins for significant customer systems.

The Company's quarterly results may be subject to fluctuations resulting from the foregoing factors, as well as from a number of other factors, including the timing of significant orders, delays in completion of internal product development projects, delays in shipping the Company's computer systems and software programs, delays in acceptance testing by customers, a change in the mix of products sold to the defense electronics and medical imaging markets, production delays due to quality problems with outsourced components, shortages of components, the timing of product line transitions and declines in quarterly revenues from old generations of products following announcement of replacement products containing more advanced technology. Another factor contributing to fluctuations in quarterly results is the fixed nature of the Company's expenditures on personnel, facilities and marketing programs. The Company's expense levels for personnel, facilities and marketing programs are based, in significant part, on the Company's expectations of future revenues on a quarterly basis. If actual quarterly revenues are below management's expectations, results of operations likely will be adversely affected. As a result of the foregoing factors, the Company's operating results, from time to time, may be below the expectations of public market analysts and investors, which could have a material adverse effect on the price of the Company's Common Stock.

DEPENDENCE ON SUPPLIERS. Several components used in the Company's products are currently obtained from sole source suppliers. Mercury is dependent on key vendors like LSI Logic, Atmel and Toshiba for custom designed ASICs, as well as Motorola for many of its PowerPC line of processors. LSI may terminate their contract with the Company without cause upon 30 days notice and may cease offering products to the Company upon 180 days notice. If LSI Logic, Atmel, Toshiba, or Motorola were to limit or reduce the sale of such components to the Company, or if these or other suppliers to the Company were to experience financial difficulties or other problems which prevented them from supplying the Company with the necessary components, such events could have a material adverse effect on the Company's business, financial condition and results of operations. These sole source suppliers are subject to quality and performance issues, materials shortages, excess demand, reduction in capacity and other factors that may disrupt the flow of goods to the Company or its customers and thereby adversely affect the Company's business and customer relationships. The Company has no guaranteed supply arrangements with its suppliers and there can be no assurance that its suppliers will continue to meet the Company's requirements. If the Company's supply arrangements are interrupted, there can be no assurance that the Company would be able to find another supplier on a timely or satisfactory basis. Any shortage or interruption in the supply of any of the components used in the Company's products, or the inability of the Company to procure these components from alternate sources on acceptable terms could have a material adverse effect on the Company's business, financial condition and results of operations. There can be no assurance that severe shortages of components will not occur in the future. Such shortages could increase the cost or delay the shipment of the Company's products, which could have a material adverse effect on the Company's business, financial condition and results of operations. Significant increases in the prices of these components would also materially adversely affect the Company's financial performance since the Company may not be able to adjust product pricing to reflect the increase in component costs. The Company could incur set-up costs and delays in manufacturing should it become necessary to replace any key vendors due to work stoppages, shipping delays, financial difficulties or other factors and, under certain circumstances, these costs and delays could have a material adverse effect on the Company's business, financial condition and results of operations.

DEPENDENCE UPON KEY PERSONNEL AND SKILLED EMPLOYEES. The Company is largely dependent upon the skills and efforts of its senior management, particularly

James R. Bertelli, its President and Chief Executive Officer, as well as its managerial, sales and technical employees. None of the senior management or other key employees of the Company are subject to any

employment contract or noncompetition agreement. The Company maintains key-man life insurance on Mr. Bertelli and certain other senior managers. The loss of services of any of its executives or other key personnel could have a material adverse effect on the Company's business, financial condition and results of operations. The Company's future success will depend to a significant extent on its ability to attract, train, motivate and retain highly skilled technical professionals, particularly project managers, engineers and other senior technical personnel. The Company believes that there is a shortage of, and significant competition for, technical development professionals with the skills and experience necessary to perform the services offered by the Company. The Company's ability to maintain and renew existing engagements and obtain new business depends, in large part, on its ability to hire and retain technical personnel with the skills that keep pace with continuing changes in industry standards, technologies and client preferences. The inability to hire additional qualified personnel could impair the Company's ability to satisfy its growing client base, requiring an increase in the level of responsibility for both existing and new personnel. There can be no assurance that the Company will be successful in retaining current or future employees.

DEPENDENCE ON MEDICAL IMAGING MARKET; POTENTIAL ADVERSE EFFECT OF HEALTH CARE REFORM. Sales of the Company's computer systems to the medical imaging market accounted for approximately 24%, 19%, and 14% of the Company's revenues in fiscal 2001, 2000, and 1999, respectively. These customers are original equipment manufacturers ("OEMs") of medical imaging devices and, as a result, any change in the demand for such devices which renders any of the Company's products unnecessary or obsolete, or any change in the technology in such devices, could have a material adverse effect on the Company's business, financial condition and results of operations. Such OEM customers, the end-users of their products and the health care industry generally are subject to extensive federal, state and local regulation in the U.S. as well as in other countries. Changes in applicable health care laws and regulations or new interpretations of existing laws and regulations could have a material adverse effect on such customers or end-users. There can be no assurance that future health care or budgetary legislation or other changes in the administration or interpretation of governmental health care programs both in the U.S. and abroad will not have a material adverse effect on the Company's business, financial condition or results of operations.

RISK OF ENTRY INTO NEW MARKETS. The Company's expansion strategy includes developing new products and entering new markets. The Company's ability to compete in new markets will depend upon a number of factors including, without limitation, the Company's ability to create demand for its products in such markets, its ability to manage its growth effectively, the quality of its products, its ability to respond to changes in its customers' businesses by updating existing products and introducing, in a timely fashion, products which meet the needs of its customers and the ability of the Company to respond rapidly to technological change. The failure of the Company to do any of the foregoing could result in a material adverse effect on its business, financial condition and results of operations. In addition, the Company may face competition in these new markets from various companies which may have substantially greater research and development resources, marketing and financial resources, manufacturing capability and customer support organizations than those of the Company.

RISKS ASSOCIATED WITH INTERNATIONAL OPERATIONS. The Company markets and sells its products in certain international markets, and the Company has established offices in the United Kingdom, Japan and France. Foreign revenue is based on the country in which the legal subsidiary is domiciled. Foreign revenue and long-lived assets represent less than 10% of the Company's total revenue and total long-lived assets for the fiscal years ended June 30, 2001, 2000, and 1999 respectively. If revenues generated by foreign activities are not adequate to offset the expense of establishing and maintaining these foreign subsidiaries and activities, the Company's business, financial condition and results of operations could be materially adversely affected. In addition, there are certain risks inherent in transacting business internationally, such as changes in applicable laws and regulatory requirements, export and import restrictions, export controls relating to technology, tariffs and other trade barriers, less favorable intellectual property laws, difficulties in staffing and managing foreign operations, longer payment cycles, problems in collecting accounts receivable, political instability, fluctuations in currency exchange rates, expatriation controls and potential adverse tax consequences, any of which could adversely impact the success of the Company's international activities. In the recent past, the financial markets in Asia have experienced significant turmoil. There can be no assurance that such turmoil in the Asian financial markets will not negatively affect the sales by the Company to that region. A portion of the Company's revenues from sales to foreign entities, including foreign governments, is in the form of foreign currencies. There can be no assurance that one or more of such factors will not have a material adverse effect on the Company's future international activities and, consequently, on the Company's business, financial condition or results of operations.

TECHNOLOGICAL CHANGES; RISK OF DESIGN-IN PROCESS. The Company's future success will depend in part on its ability to enhance its current products and to develop new products on a timely and cost-effective basis in order to respond to technological developments and changing customer needs. The defense electronics market, in particular, demands constant technological improvements as a means of gaining military advantage. Military planners historically have funded significantly more design projects than actual deployments of new equipment, and those systems which are deployed tend to contain the components of the subcontractors selected to participate in the design process. In order to participate in the design of new defense electronics systems, the Company must be able to demonstrate its ability to deliver superior technological performance on a timely and cost-effective basis. There can be no assurance that the Company will be able to secure an adequate number of defense electronics design wins in

future, that the equipment in which the Company's products are intended to function eventually will be deployed in the field, or that the Company's products will be included in such equipment if it eventually is deployed.

Customers in the medical imaging market also seek technological improvements through product enhancements and new generations of products. The Company believes that medical imaging machines in which the Company's computers are installed have a long product life cycle. Medical equipment OEMs historically have selected certain suppliers whose products have been included in the OEMs' machines for a significant portion of the products' life cycle. There can be no assurance that the Company will be selected to participate in the future design of any medical imaging equipment, or that, if selected, the Company will generate any revenues for such design work. Failure to participate in future designs of medical imaging equipment could have a material adverse effect on the Company's business, financial condition and results of operations.

The design-in process is typically lengthy and expensive, and there can be no assurance that the Company will be able to continue to meet the product specifications of its customers in a timely and adequate manner. In addition, any failure by the Company to anticipate or respond adequately to changes in technology and customer preferences, or any significant delay in product developments or introductions, could have a material adverse effect on the Company's business, financial condition and results of operations. Because of the complexity of its products, the Company has experienced delays from time to time in completing products on a timely basis. If the Company is unable to design, develop or introduce competitive new products on a timely basis, its future operating results would be adversely affected. There can be no assurance that the Company will be successful in developing new products or enhancing its existing products on a timely or cost-effective basis, or that such new products or product enhancements will achieve market acceptance.

COMPETITION. The markets for the Company's products are highly competitive and are characterized by rapidly changing technology, frequent product performance improvements and evolving industry standards. See "Item 1. Business - Competition."

LIMITED PROTECTION OF PROPRIETARY RIGHTS; POTENTIAL INFRINGEMENT OF THIRD PARTY RIGHTS. There can be no assurance that the Company's means of protecting its proprietary rights in the U.S. or abroad will be adequate, or that others will not develop technologies similar or superior to the Company's technology or design around the proprietary rights owned by the Company. In addition, there can be no assurance that others will not assert claims of infringement in the future or that, if made, such claims will not be successful. See "Item 1. Business - Intellectual Property and Proprietary Rights."

POTENTIAL ACQUISITIONS. In the normal course of its business, the Company evaluates potential acquisitions of businesses, products and technologies that could complement or expand the Company's business. In the event the Company were to identify an appropriate acquisition candidate, there is no assurance that the Company would be able to successfully negotiate the terms of any such acquisition, finance such acquisition and integrate such acquired business, products or technologies into the Company's existing business and operations. Furthermore, the integration of an acquired business could cause a diversion of management time and resources. In addition, there can be no assurance that any acquisition of new technology will lead to the successful development of new products, or that any such new products, if developed, will achieve market acceptance or prove to be profitable. There can be no assurance that a given acquisition, when consummated, would not materially adversely affect the Company's business, financial condition or results of operations. If the Company proceeds with one or more significant acquisitions in which the consideration consists of cash, a substantial portion of the Company's available cash could be used to consummate the acquisitions. If the Company consummates one or more significant acquisitions in which the consideration consists of stock, or is financed with the net proceeds of the issuance of stock, stockholders of the Company could suffer a significant dilution of their interests in the Company.

ITEM 2. PROPERTIES

The Company's headquarters consist of two buildings approximating 187,000 square feet of space in Chelmsford, Massachusetts. The Company purchased these two buildings during fiscal 1999. In fiscal 2000, the Company purchased approximately 179,000 square feet of land adjacent to the two existing lots. The Company also maintains offices near Los Angeles and San Jose, California, and in Dallas, Texas, Chanhassen, Minnesota, Madison, Wisconsin, Port St. Lucie, Florida, Bellevue, Washington and Vienna, Virginia and has international offices in the United Kingdom, France, the Netherlands and Japan.

ITEM 3. LEGAL PROCEEDINGS

In July 1999, a former employee brought a wrongful termination action against the Company and certain officers of the Company. The plaintiff seeks severance pay, the right to purchase 60,000 shares of the Company's common stock at a price of \$2.00 per share, the right to exercise 96,000 stock options at an exercise price of \$2.00 per share, and other financial consideration. Binding arbitration has commenced but no ruling has been decided. The position of the Company's management after consultation with external counsel, is that a loss from this action is not probable. Accordingly, no loss accrual has been recorded. If the plaintiff were to prevail on its claims, depending on the price of the Company's common stock, a judgement for a material amount could be awarded against the Company. The Company has objected to the claims and is aggressively defending the matter.

ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS

No matters were submitted to a vote of stockholders during the fourth quarter of the fiscal year ended June 30, 2001.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY AND RELATED STOCKHOLDERS' MATTERS

The Company's Common Stock is traded in the over-the-counter market and is quoted on the Nasdaq National Market under the symbol MRCY. The following table sets forth, for the periods indicated, the high and low prices per share for transactions during such periods. Such over-the-counter market quotations reflect inter-dealer prices without retail markup, markdown or commission.

		High	Low
		-----	-----
2000	First quarter	17 1/4	11 3/8
	Second quarter	35	16
	Third quarter	68 1/8	27 7/8
	Fourth quarter	48 7/8	24 1/4
2001	First quarter	31 13/16	19 13/16
	Second quarter	50	26 1/8
	Third quarter	54 1/8	34 15/16
	Fourth quarter	54 5/9	30 1/4

As of August 31, 2001 the Company had approximately 12,000 shareholders including record and nominee holders.

The Company has never declared or paid cash dividends on shares of its Common Stock and does not expect to declare or pay cash dividends on its Common Stock in the foreseeable future. The Company currently intends to retain any earnings for future growth.

ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA

The following table summarizes certain historical consolidated financial data, which should be read in conjunction with the Company's financial statements and related notes included elsewhere herein (in thousands except per share data):

YEAR ENDED JUNE 30,	2001	2000	1999	1998	1997
STATEMENT OF OPERATIONS DATA:					
Revenues	\$ 180,492	\$ 140,944	\$ 106,571	\$ 85,544	\$ 64,574
Cost of revenues	59,815	39,146	34,237	30,084	22,034
Gross profit	120,677	101,798	72,334	55,460	42,540
Operating expenses:					
Selling, general and administrative	50,636	39,475	33,002	27,879	22,631
Research and development	30,484	28,862	20,709	14,476	12,837
Total operating expenses	81,120	68,337	53,711	42,355	35,468
Income from operations	39,557	33,461	18,623	13,105	7,072
Interest income	3,977	2,430	1,336	1,084	560
Interest expense	(1,065)	(731)	(51)	--	--
Equity loss in joint venture	(3,310)	(3,721)	--	--	--
Gain on sale of division	6,400	4,820	--	--	--
Other income (expense)	(435)	86	185	(30)	(88)
Income before income taxes	45,124	36,345	20,093	14,159	7,544
Provision for income taxes	14,440	11,449	6,631	5,428	2,933
Net income	\$ 30,684	\$ 24,896	\$ 13,462	\$ 8,731	\$ 4,611
Net income per common share (1)					
Basic	\$ 1.42	\$ 1.19	\$ 0.66	\$ 0.60	\$ 0.45
Diluted	\$ 1.33	\$ 1.10	\$ 0.62	\$ 0.47	\$ 0.29
Weighted average number of common and common equivalent shares outstanding (2,3)					
Basic	21,576	21,000	20,336	14,470	10,282
Diluted	23,104	22,703	21,600	18,540	15,794
JUNE 30,	2001	2000	1999	1998	1997
BALANCE SHEET DATA:					
Working capital	\$ 101,391	\$ 67,977	\$ 42,312	\$ 32,794	\$ 27,547
Total assets	183,584	144,217	97,511	73,569	44,848
Long term obligations	13,430	14,052	590	--	--
Convertible preferred stock (2)	--	--	--	--	1,200
Total stockholders' equity	147,788	108,360	77,440	61,040	33,322

(1) Note: Previously published financial data have been restated to give effect to the two-for-one stock split effected in the form of a 100% stock dividend distributed on December 21, 1999.

(2) Upon completion of the Company's initial public offering on January 29, 1998, the Company's series A convertible preferred stock was converted into 2,556,792 shares of common stock.

(3) See Note B of Notes to Consolidated Financial Statements for an explanation of the determination of the weighted average common and common equivalent shares used to compute basic and diluted net income per common share.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

CERTAIN FACTORS THAT MAY AFFECT FUTURE RESULTS

In this report, as well as oral statements made by the Company, phrases that are prefaced with the words "may," "will," "expect," "anticipate," "continue," "estimate," "project," "intend," "designed" and similar expressions, are intended to identify forward-looking statements regarding events, conditions and financial trends that may affect the Company's future plans of operations, business strategy, results of operations and financial position. These statements are based on the Company's current expectations and estimates as to prospective events and circumstances about which the Company can give no firm assurance. Further, any forward-looking statement speaks only as of the date on which such statement is made, and the Company undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made. As it is not possible to predict every new factor that may emerge, forward-looking statements should not be relied upon as a prediction of actual future financial condition or results. These forward-looking statements, like any forward-looking statements, involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. Such risks and uncertainties include certain factors identified in the following discussion as well as the risk factors reported in the Company's Form 10-K filed with the Securities and Exchange Commission.

OVERVIEW

Mercury designs, manufactures and markets high performance, real-time digital signal processing computer systems that transform sensor-generated data into information which can be displayed as images for human interpretation or subjected to additional computer analysis. These multicomputer systems are heterogeneous and scalable, allowing them to accommodate several microprocessor types and to scale from a few to hundreds of microprocessors within a single system.

During the past several years, the majority of the Company's revenues has been generated from sales of its products to the defense electronics market, generally for use in intelligence gathering electronic warfare systems. The Company's activities in this area have focused on the proof of concept, development and deployment of advanced military applications in radar, sonar and airborne surveillance. Medical diagnostic imaging is the other primary market currently served by the Company. Mercury's computer systems are embedded in Magnetic Resonance Imaging ("MRI"), Computed Tomography ("CT"), Positron Emission Tomography ("PET"), and Digital Cardiology Imaging machines. The remaining revenues are derived from computer systems used in such commercial applications as baggage scanning, seismic analysis and automatic testing equipment for the semiconductor industry.

Mercury uses a direct sales force to sell its computer systems to the defense electronics markets in the U.S., Japan, and Europe. Defense electronics sales to other countries are achieved through distributors. The Company also uses a direct sales force to sell its computer systems to the U.S. and international medical imaging markets. The Company sells its products to OEMs, value added re-sellers and end-users. Over the past three fiscal years, the Company has expanded its sales force to support growing revenues, made significant expenditures to recruit additional technical and professional staff, invested in information technology, and improved the Company's financial, administrative and management infrastructure.

Revenues include hardware and software products, development contracts, services such as maintenance, training, engineering consulting and system integration of Mercury software with third-party hardware. Revenues from maintenance, training, engineering consulting services and system integration historically have not constituted a material portion of total revenues. Revenue related to products is recognized upon shipment provided that title and risk of loss has passed to the customer, there is persuasive evidence of an arrangement, the sales price is fixed and determinable, collection of the related receivable is reasonably assured and customer acceptance criteria have been successfully demonstrated. The Company accrues for anticipated warranty costs upon shipment. Service revenue is recognized ratably over applicable contract periods or as the services are performed. For certain eligible contracts eligible under American Institute of Certified Public Accountants ("AICPA") Statement of Position 81-1, revenue is recognized using the percentage-of-completion accounting method based on contract costs incurred to date compared with total estimated contract costs. Changes to total estimated costs and anticipated losses, if any, are recognized in the period in which determined.

Cost of revenues includes the cost of materials, component assembly, internal labor and related overhead. Cost of revenues also can include engineering and other technical labor and related overhead incurred in development and engineering consulting contracts.

Gross profit as a percentage of revenues ("gross margin") varies from period to period depending upon numerous variables including the mix of revenues from hardware, software, development and engineering consulting contracts; the mix of revenues among the markets served by the Company; the cost of raw materials; the cost of outsourced services and labor; operational efficiencies; actual production volume compared to planned volume; and the mix of applications for which the Company's computer systems are sold. Historically, the Company's gross margins on service revenues have been lower than on product revenues. In addition, the Company's gross margins from development contract revenues are typically lower than the Company's gross margins from standard product revenues. The Company intends to continue to enter into development contracts and anticipates that the gross margins associated with development contract revenues will continue to be lower than its gross margins on standard product revenues.

Mercury has made significant investments in research and development in an effort to maintain its technology leadership in digital signal processing. Mercury invested \$20.7 million, \$28.9 million and \$30.5 million in fiscal years 1999, 2000 and 2001, respectively, in development activities associated with the Company's key technology competencies as well as in activities that are targeted at developing new technologies and products. The Company expects research and development expenses to continue to increase as the Company continues to develop products to serve its markets, all of which are subject to rapidly changing technology, frequent product performance improvements and evolving industry standards. The ability to deliver superior technological performance on a timely and cost-effective basis is a critical factor in securing design wins for future generations of defense electronics, medical imaging systems, and other commercial applications. Significant research and development spending by the Company does not ensure that the Company's computer systems will be designed into a customer's system. Because future production orders are usually contingent upon securing a design win, the Company's operating results may fluctuate due to either obtaining or failing to obtain design wins for significant customer systems.

RESULTS OF OPERATIONS

The following table sets forth, for the periods indicated, certain financial data as a percentage of total revenues.

YEAR ENDED JUNE 30,	2001	2000	1999
Revenues	100.0%	100.0%	100.0%
Cost of revenues	33.1	27.8	32.1
Gross profit	66.9	72.2	67.9
Operating expenses:			
Selling, general and administrative	28.1	28.0	31.0
Research and development	16.9	20.5	19.4
Total operating expenses	45.0	48.5	50.4
Income from operations	21.9	23.7	17.5
Other income, net	3.1	2.1	1.4
Income before income taxes	25.0	25.8	18.9
Provision for income taxes	8.0	8.1	6.3
Net income	17.0%	17.7%	12.6%

FISCAL 2000 VS. FISCAL 2001

REVENUES

Total revenues increased 28% from \$140.9 million during the year ended June 30, 2000 to \$180.5 million during the year ended June 30, 2001.

Defense electronics revenues increased 20% from \$100.3 million or 71% of total revenues during the year ended June 30, 2000 to \$120.4 million or 67% of total revenues during the year ended June 30, 2001. This increase in revenue was primarily due to the increased unit demand for defense electronics products, largely comprised of advanced military applications in radar and airborne surveillance.

Medical imaging revenues increased 61% from \$27.1 million or 19% of total revenues during the year ended June 30, 2000 to \$43.5 million or 24% of total revenues during the year ended June 30, 2001. The increase in medical imaging revenues reflects the increase in production volume of product for magnetic resonance imaging ("MRI"), computed tomography ("CT"), and Positron Emission Tomography ("PET") imaging systems, along with the first production shipments of product for digital cardiology imaging systems.

Other commercial revenues increased 23% from \$13.5 million or 10% of total revenues during the year ended June 30, 2000 to \$16.6 million or 9% of total revenues during the year ended June 30, 2001. The increase in other commercial revenues was due primarily to the expansion into existing markets, particularly semiconductor photomask generation and mask inspection, offset in part by the loss of the Shared Storage Business Unit ("SSBU") revenues.

COST OF REVENUES

Cost of revenues increased 53% from \$39.1 million during the year ended June 30, 2000 to \$59.8 million during the year ended June 30, 2001. Cost of revenues as a percentage of total revenues increased from 28% during the year ended June 30, 2000 to 33% during the year ended June 30, 2001. The increase in costs as a percentage of total revenues was primarily due to an increase in external processing and component costs, a shift from higher margin defense products to lower margin commercial products, and costs associated with re-establishing certain discontinued standard parts.

SELLING, GENERAL AND ADMINISTRATIVE

Selling, general and administrative expenses increased 28% from \$39.5 million during the year ended June 30, 2000 to \$50.6 million during the year ended June 30, 2001. Selling, general and administrative expenses as a percentage of total revenues were 28% for the years ended June 30, 2000 and 2001. The increase in expenses year over year was primarily due to expenses associated with the ongoing cost of implementing a new financial, manufacturing, and administrative computer system. Additionally, commissions associated with higher sales volume and the ongoing development of the Company's sales and management infrastructure to support the Company's growth contributed to the increased expenses.

RESEARCH AND DEVELOPMENT

Research and development expenses increased 6% from \$28.9 million during the year ended June 30, 2000 to \$30.5 million during the year ended June 30, 2001. Research and development expenses as a percentage of total revenues were 20% during the year ended June 30, 2000 and 17% during the year ended June 30, 2001. The increase in research and development expenses was due primarily to the hiring of additional software and hardware engineers to develop and enhance the features and functionality of the Company's core products and a significant investment in the research and development activities of the Wireless Communications Group. Even with the increase in research and development expenses as compared with a year ago, expenses are running lower than management's expectations due to the delay in certain prototyping activities.

The Company's future success and ability to make the appropriate engineering investments, will depend to a significant extent on its ability to attract, train, motivate and retain highly skilled technical professionals, particularly project managers, engineers and other senior technical personnel. The Company believes that there is, from time to time, a shortage of, and significant competition for, technical development professionals with the skills and experience necessary to perform the services offered by the Company. The Company's ability to maintain and renew existing engagements and obtain new business depends, in large part, on its ability to hire and retain technical personnel with the skills that keep pace with continuing changes in industry standards, technologies and client preferences. The inability to hire additional qualified personnel could impair the Company's ability to satisfy its growing client base, requiring an increase in the level of responsibility for both existing and new personnel. There can be no assurance that the Company will be successful in retaining current or future employees and therefore able to continue to make the investments in engineering at the projected higher expenditure levels. Furthermore, the Company's inability to retain or hire technical personnel may require contracting or outsourcing engineering activities. This factor could result in higher than planned engineering expenses and therefore, a possible fluctuation in the Company's operating results.

INCOME FROM OPERATIONS

Income from operations increased 18% from \$33.5 million during the year ended June 30, 2000 to \$39.6 million during the year ended June 30, 2001. This increase is associated with higher sales volume, offset in part by lower gross margins.

Included in income from operations during the year ended June 30, 2000 were \$1.8 million in hardware and software revenues and \$2.4 million in direct expenses related to SSBU. The direct expenses include expenses from marketing and engineering activities, primarily related to compensation, trade shows, prototype development and direct costs related to the sale of the product. SSBU was sold in FY 2000.

GAIN ON SALE OF DIVISION

On January 18, 2000, the Company completed the sale of SSBU to International Business Machines Corporation ("IBM"). Payments are structured with an initial payment of \$4.5 million (excluding \$1.0 million to be held in escrow and payable on a contingent basis), followed by 12 quarterly contingent payments of \$1.5 million plus interest. The quarterly payments are contingent upon IBM's continued use of the technology. If IBM defaults, Mercury has the right to recover the assets, including the patent and other intellectual property. The Company recorded \$6.4 million and \$4.8 million gains during the years ended June 30, 2001 and 2000, respectively. During the year ended June 30, 2000, the \$4.8 million gain consisted of \$6.1 million of cash received (initial \$4.5 million plus first quarterly payment of \$1.6 million) less legal and advisory costs of \$581,000, compensation costs of \$499,000, and net book value of equipment and inventories sold of \$200,000.

EQUITY LOSS IN JOINT VENTURE

In September 1999, the Company formed AgileVision as a joint venture with Sarnoff Corporation, the developer of color television and a pioneer in the creation of digital television ("DTV"). AgileVision provides broadcasters and cable providers equipment to optimize their DTV investment and develop new broadband media commerce revenue streams, including master control systems that

permit broadcasters to perform multiple functions on a single platform that previously would have required the engineering and integration of numerous discrete products and systems. The Company's investment in AgileVision during the year ended June 30, 2000 and 2001 amounted to \$3.5 million and \$3.4 million, respectively. The Company recognized \$3.7 million and \$3.3 million of losses on the equity-basis of accounting related to the operations of AgileVision during the years ended June 30, 2000 and 2001, respectively. On July 13, 2001, the Company's board of directors approved an additional investment of up to \$1 million for the purpose of continuing to fund the AgileVision operations.

INTEREST INCOME, NET

The Company earned \$1.7 million in interest income, net, during the year ended June 30, 2000 and \$2.9 million during the year ended June 30, 2001. This increase is primarily due to higher average cash balances offset in part by lower interest rates.

PROVISION FOR INCOME TAXES

The Company's provision for income taxes was \$11.4 million during the year ended June 30, 2000 and \$14.4 million during the year ended June 30, 2001. The Company's effective tax rate was 31.5% during the year ended June 30, 2000 and 32.0% during the year ended June 30, 2001. The tax rates for both years ended June 30, 2000 and 2001 were lower than the federal statutory rate of 35% primarily due to the utilization of research and development credits and tax-exempt interest income, offset partially by state income tax.

FISCAL 1999 VS. FISCAL 2000

REVENUES

Total revenues increased 32% from \$106.6 million during the year ended June 30, 1999 to \$140.9 million during the year ended June 30, 2000.

Defense electronics revenues increased 21% from \$82.6 million or 77% of total revenues during the year ended June 30, 1999 to \$100.3 million or 71% of total revenues during the year ended June 30, 2000. This increase in revenue was primarily due to the increased unit demand for defense electronics products, largely comprised of advanced military applications in radar, sonar, and airborne surveillance.

Medical imaging revenues increased 77% from \$15.3 million or 14% of total revenues during the year ended June 30, 1999 to \$27.1 million or 19% of total revenues during the year ended June 30, 2000. The increase in medical imaging revenues reflects the increase in production volume of product for our customers' CT imaging systems.

Other revenues increased 55% from \$8.7 million or 8% of total revenues during the year ended June 30, 1999 to \$13.5 million or 10% of total revenues during the year ended June 30, 2000. The increase in other revenues was due primarily to the addition of a new commercial customer, offset in part by the sale of SSBU in January 2000.

COST OF REVENUES

Cost of revenues increased 14% from \$34.2 million during the year ended June 30, 1999 to \$39.1 million during the year ended June 30, 2000. Cost of revenues as a percentage of total revenues decreased from 32% during the year ended June 30, 1999 to 28% during the year ended June 30, 2000. The decrease in costs as a percentage of total revenues was primarily due to a decline in component costs and tighter control over manufacturing spending.

SELLING, GENERAL AND ADMINISTRATIVE

Selling, general and administrative expenses increased 20% from \$33.0 million during the year ended June 30, 1999 to \$39.5 million during the year ended June 30, 2000. Selling, general and administrative expenses as a percentage of total revenues were 31% during the year ended June 30, 1999 and 28% during the year ended June 30, 2000. The increase in expense dollars reflects the hiring of additional sales and administrative personnel, increased commissions related to increased revenues, investment in an enterprise resource planning system, as well as the ongoing development of the Company's financial, administrative and management infrastructure to support the Company's growth.

RESEARCH AND DEVELOPMENT

Research and development expenses increased 39% from \$20.7 million during the year ended June 30, 1999 to \$28.9 million during the year ended June 30, 2000. Research and development expenses as a percentage of total revenues were 19% during the year ended June 30, 1999 and 20% during the year ended June 30, 2000. The increase in research and development expenses was due primarily to the hiring of additional software and hardware engineers to develop and enhance the features and functionality of the Company's products and an increased level of introduction of new products in response to a high demand for next generation products.

INCOME FROM OPERATIONS

Income from operations increased 80% from \$18.6 million during the year ended June 30, 1999 to \$33.5 million during the year ended June 30, 2000. This increase is associated with higher sales volume and lower cost of goods sold.

Included in income from operations during the year ended June 30, 2000 were \$1.8 million in hardware and software revenues and \$2.4 million in direct expenses related to the SSBU. Included in income from operations during the year ended June 30, 1999 were \$2.2 million in hardware and software revenues and \$4.0 million in direct expenses related to the SSBU. The direct expenses include expenses from marketing and engineering activities, primarily related to compensation, trade shows, prototype development and direct costs related to the sale of the product.

GAIN ON SALE OF DIVISION

On January 18, 2000, the Company completed the sale of SSBU to IBM. Payments are structured with an initial payment of \$4.5 million (excluding \$1.0 million to be held in escrow and payable on a contingent basis), followed by 12 quarterly contingent payments of \$1.5 million plus interest. The quarterly payments are contingent upon IBM's continued use of the technology. If IBM defaults, Mercury has the right to recover the assets, including the patent and other intellectual property. The Company recorded a \$4.8 million gain on the sale of SSBU which includes cash received of \$6.1 million less legal and advisory costs of \$581,000, compensation costs of \$499,000, and the net book value of equipment and inventories sold of \$200,000.

EQUITY LOSS IN JOINT VENTURE

In September 1999, the Company formed AgileVision as a joint venture with Sarnoff Corporation, the developer of color television and a pioneer in the creation of digital television ("DTV"). AgileVision provides broadcasters and cable providers equipment to optimize their DTV investment and develop new broadband media commerce revenue streams, including master control systems that permit broadcasters to perform multiple functions on a single platform that previously would have required the engineering and integration of numerous discrete products and systems. During the year ended June 30, 2000, the Company's contribution to AgileVision was \$3.5 million in cash. During the year ended June 30, 2000, the Company recognized \$3.7 million of losses on the equity-basis of accounting related to the operation of AgileVision. No expenses were recognized during the year ended June 30, 1999.

INTEREST INCOME, NET

The Company earned \$1.3 million in interest income, net, during the year ended June 30, 1999 and \$1.7 million during the year ended June 30, 2000. This increase primarily reflects higher average cash balances.

PROVISION FOR INCOME TAXES

The Company's provision for income taxes was \$6.6 million during the year ended June 30, 1999 and \$11.4 million during the year ended June 30, 2000. The Company's effective tax rate was 33% during the year ended June 30, 1999 and 31.5% during the year ended June 30, 2000. During fiscal 2000, the tax rate was reduced primarily due to a reduction in state taxes.

LIQUIDITY AND CAPITAL RESOURCES

As of June 30, 2001, the Company had cash and marketable securities of approximately \$95.6 million. During the year ended June 30, 2001, the Company generated approximately \$26.1 million in cash from operations compared to \$30.7 million generated during the year ended June 30, 2000. The decrease in cash generated from operations is attributable primarily to the Company's increase in current assets, particularly trade receivables. Trade receivables increased significantly at June 30, 2001 due to a large percentage of the fourth quarter shipments delivered during the last few weeks of the year. Overall, the Company's days sales, based on revenues of each calendar quarter, decreased from 70 days at the end of 2000 to 64 days at the end of 2001.

In September 1999, the Company formed AgileVision as a joint venture with Sarnoff Corporation, the developer of color television and a pioneer in the creation of digital television ("DTV"). AgileVision provides broadcasters and cable providers equipment to optimize their DTV investment and develop new broadband media commerce revenue streams, including master control systems that permit broadcasters to perform multiple functions on a single platform that previously would have required the engineering and integration of numerous discrete products and systems. The Company's investment in AgileVision during the year ended June 30, 2001 and 2000 amounted to \$3.4 million and \$3.5 million, respectively. On July 13, 2001, the Company's board of directors approved an additional investment of up to \$1 million for the purpose of continuing to fund the AgileVision operations.

The Company used approximately \$21.8 million in investing activities during the year ended June 30, 2001 compared to \$45.9 million during the year ended June 30, 2000. During the year ended June 30, 2001, the Company's investing activities consisted of \$19.1 million for the purchase of marketable securities (net of sales), \$1.7 million of cash investment in AgileVision, and \$7.4 million for computers, furniture and equipment. These payments were partially offset by the receipt of \$6.4 million from the sale of a division. During the year ended June 30, 2000, the Company's investing activities consisted of \$40.8 million for the purchase of marketable securities (net of sales), \$3.5 million for investment in AgileVision, \$1.1 million for the purchase of land adjacent to its existing headquarters and \$5.5 million for computers, furniture and equipment.

These payments were partially offset by the receipt of \$5.0 million from the sale of a division.

The Company generated approximately \$3.1 million in cash from financing activities during the year ended June 30, 2001 compared to \$17.4 million during the year ended June 30, 2000. During the year ended June 30, 2001, the Company's financing activities consisted primarily of \$4.3 million in cash generated from the employee stock purchase plan and the exercise of stock options. These cash inflows were partially offset by the payment of debt and capital lease obligations amounting to approximately \$1.2 million. During the year ended June 30, 2000 the Company's financing activities consisted primarily of \$14.5 million in proceeds received upon the issuance of two 7.3% senior secured financing notes. These notes are due November 2014. In addition, \$3.7 million in cash was generated from the employee stock purchase plan and the exercise of stock options. These cash inflows were partially offset by the payment of debt and capital lease obligations amounting to approximately \$828,000.

Management believes that the Company's available cash, marketable securities, and cash generated from operations, will be sufficient to provide for the Company's working capital and capital expenditure requirements for at least the next twenty-four months. If the Company acquires one or more businesses or products, the Company's capital requirements could increase substantially. In the event of such an acquisition or in the event that unanticipated circumstances arise which significantly increase the Company's capital requirements, there can be no assurance that necessary additional capital will be available on terms acceptable to the Company, if at all.

RECENT ACCOUNTING PRONOUNCEMENTS

In December 1999, the Securities and Exchange Commission issued Staff Accounting Bulletin No 101 ("SAB 101"), "Revenue Recognition". SAB 101 summarizes the staff's view in applying generally accepted accounting principles to revenue recognition. The Company adopted SAB 101 in fiscal year 2001. The adoption did not have a material affect on its financial statements.

The Company adopted SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities" as amended by SFAS No. 137 and SFAS No. 138 in the first fiscal quarter of 2001. SFAS No. 133 requires the Company to recognize all derivatives on the balance sheet at fair value. Adoption of SFAS No. 133 did not have an impact on the Company's financial position or results of operations.

In July 2001, the FASB issued SFAS No. 141, "Business Combinations" and SFAS No. 142, "Goodwill and Other Intangible Assets." SFAS No. 141 requires that all business combinations be accounted for under the purchase method only and that certain acquired intangible assets in a business combination be recognized as assets apart from goodwill. SFAS No. 142 requires that ratable amortization of goodwill be replaced with periodic tests of the goodwill's impairment and that intangible assets other than goodwill be amortized over their useful lives. SFAS No. 141 is effective for all business combinations initiated after June 30, 2001 and for all business combinations accounted for by the purchase method for which the date of acquisition is after June 30, 2001. The provisions of SFAS No. 142 are required to be adopted for fiscal years beginning after December 15, 2001, however, the Company has, as permitted, adopted SFAS No. 142 early, as of July 1, 2001. The adoption of SFAS No. 142 had no impact on the Company's financial position or results of operations.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

INTEREST RATE RISK MANAGEMENT

Due to the short-term duration, the fair value of the Company's cash and investment portfolio at June 30, 2001 approximated carrying value. Interest rate risk is estimated as the potential decrease in fair value resulting from a hypothetical 10% increase in interest rates for issues contained in the investment portfolio. The resulting hypothetical fair value was not materially different from the year-end carrying value.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

CONSOLIDATED BALANCE SHEETS

(IN THOUSANDS, EXCEPT SHARE DATA) JUNE 30,

	2001	2000
	-----	-----
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 13,307	\$ 5,850
Marketable securities	54,135	36,784
Trade accounts receivable, net of allowance for doubtful accounts of \$600 and \$308 at June 30, 2001 and 2000, respectively	34,928	25,046
Inventory	12,840	15,975
Deferred income taxes	3,206	1,909
Income tax receivable	--	722
Prepaid expenses and other current assets	5,341	3,496
	-----	-----
Total current assets	123,757	89,782
Marketable securities	28,166	25,705
Property and equipment, net	28,793	27,574
Deferred income taxes	2,207	787
Other assets	661	369
	-----	-----
Total assets	\$ 183,584	\$ 144,217
	=====	=====
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 6,638	\$ 9,231
Accrued expenses	4,263	2,486
Accrued compensation	7,427	6,143
Capital lease - short term	292	580
Notes payable-short term	621	577
Billings in excess of revenues and customer advances	1,060	2,788
Income taxes payable	2,065	--
	-----	-----
Total current liabilities	22,366	21,805
Commitments and Contingencies (Note F)	--	--
Deferred compensation - long term	337	--
Capital lease - long term	108	447
Notes payable-long term	12,985	13,605
STOCKHOLDERS' EQUITY		
Common stock, \$.01 par value; 40,000,000 shares authorized; 21,811,738 and 21,395,137 shares issued and outstanding at June 30, 2001 and 2000, respectively	218	214
Additional paid-in capital	42,575	34,446
Retained earnings	104,525	73,841
Accumulated other comprehensive income	470	(141)
	-----	-----
Total stockholders' equity	147,788	108,360
	-----	-----
Total liabilities and stockholders' equity	\$ 183,584	\$ 144,217
	=====	=====

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

CONSOLIDATED STATEMENTS OF OPERATIONS

(IN THOUSANDS, EXCEPT PER SHARE DATA) YEAR ENDED JUNE 30,

	2001	2000	1999
Net revenues	\$ 180,492	\$ 140,944	\$ 106,571
Cost of revenues	59,815	39,146	34,237
Gross profit	120,677	101,798	72,334
Operating expenses:			
Selling, general and administrative	50,636	39,475	33,002
Research and development	30,484	28,862	20,709
Total operating expenses	81,120	68,337	53,711
Income from operations	39,557	33,461	18,623
Interest income	3,977	2,430	1,336
Interest expense	(1,065)	(731)	(51)
Equity loss in joint venture	(3,310)	(3,721)	--
Gain on sale of division, net	6,400	4,820	--
Other income (expense), net	(435)	86	185
Income before income tax provision	45,124	36,345	20,093
Income tax provision	14,440	11,449	6,631
Net income	\$ 30,684	\$ 24,896	\$ 13,462
Net income per common share:			
Basic	\$ 1.42	\$ 1.19	\$ 0.66
Diluted	\$ 1.33	\$ 1.10	\$ 0.62
Weighted average number of common and common equivalent shares outstanding:			
Basic	21,576	21,000	20,336
Diluted	23,104	22,703	21,600

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

CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY

FOR THE YEARS ENDED JUNE 30, 2001,
2000, AND 1999
(IN THOUSANDS)

	Common Stock		Add'l	Retained	Accumulated	Compre-	Subscriptions	Total
	Shares	Amount	Paid-In	Earnings	Other	hensive	and Related	Stock-
			Capital		Compre-	hensive	Parties	holder's
					hensive	Income	Notes	Equity
					Income		Receivable	
Balance June 30, 1998	9,973	\$100	\$ 25,961	\$35,483	\$ (179)		\$ (325)	\$61,040
Exercise of common stock options	309	3	1,213					1,216
Issuance of common stock in conjunction with employee stock Purchase plan	29		469					469
Tax benefit from disqualified dispositions			826					826
Stock compensation			46					46
Payment of notes by related parties							325	325
Comprehensive income:								
Net income				13,462		13,462		13,462
Unrealized loss on securities					(30)	(30)		(30)
Foreign currency translation					86	86		86
Comprehensive income						\$13,518		
Balance June 30, 1999	10,311	103	\$28,515	\$48,945	\$ (123)		--	\$77,440
Exercise of common stock options	169	1	1,148					1,149
Two-for-one stock split	10,480	105	(105)					--
Exercise of common stock options	396	4	1,851					1,855
Issuance of common stock in conjunction with employee stock purchase plan	39	1	736					737
Tax benefit from disqualified dispositions			1,877					1,877
Stock compensation			424					424
Comprehensive income:								
Net income				24,896		24,896		24,896
Unrealized loss on securities					(41)	(41)		(41)
Foreign currency translation					23	23		23
Comprehensive income						\$24,878		
Balance June 30, 2000	21,395	\$214	\$34,446	\$73,841	\$ (141)		--	\$108,360
Exercise of common stock options	386	4	3,366					3,370
Issuance of common stock in conjunction with employee stock purchase plan	31	--	950					950
Tax benefit from disqualified dispositions			3,402					3,402
Stock compensation			411					411
Comprehensive income:								
Net income				30,684		30,684		30,684
Unrealized gain on securities					705	705		705
Foreign currency translation					(94)	(94)		(94)
Comprehensive income						\$31,295		
Balance June 30, 2001	21,812	\$218	\$42,575	\$104,525	\$ 470		--	\$147,788

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

CONSOLIDATED STATEMENTS OF CASH FLOWS

(IN THOUSANDS) YEAR ENDED JUNE 30,

	2001	2000	1999
Cash flows from operating activities:			
Net income	\$ 30,684	\$ 24,896	\$ 13,462
Adjustments to reconcile net income to net cash provided by (used in) operating activities:			
Depreciation and amortization of property and equipment	6,128	4,786	3,916
Gain on sale of division	(6,400)	(4,820)	--
Amortization of capitalized software development costs	--	313	602
Equity loss in joint venture	3,310	3,721	--
Stock option compensation expense	411	424	46
Provision for doubtful accounts	324	--	249
Deferred income taxes	(2,717)	590	(1,187)
Changes in assets and liabilities:			
Trade accounts receivable	(11,560)	3,866	(11,871)
Inventory	3,060	(3,661)	(3,262)
Prepaid expenses and other current assets	(1,678)	(2,831)	(108)
Other assets	(297)	(150)	(98)
Accounts payable	(2,585)	3,654	2,216
Accrued expenses and compensation	2,565	674	1,874
Deferred compensation - long term	337	--	--
Billings in excess of revenues and customer advances	(1,693)	(366)	2,151
Income taxes payable	6,189	(434)	1,110
Net cash provided by operating activities	26,078	30,662	9,100
Cash flows from investing activities:			
Purchase of marketable securities	(113,652)	(127,019)	(114,574)
Sale of marketable securities	94,544	86,230	121,768
Purchases of property and equipment	(7,387)	(6,637)	(19,440)
Investment in joint venture	(1,700)	(3,500)	--
Proceeds from sale of division, net of selling costs	6,400	5,032	--
Capitalized software development costs	--	--	(810)
Note receivable from related parties	--	--	325
Net cash used in investing activities	(21,795)	(45,894)	(12,731)
Cash flows from financing activities:			
Proceeds from employee stock purchase program	950	737	469
Proceeds from exercise of stock options	3,370	3,004	1,216
Proceeds from issuance of notes	--	14,500	--
Payments of debt	(577)	(318)	--
Principal payments under capital lease obligations	(627)	(510)	(303)
Net cash provided by financing activities	3,116	17,413	1,382
Net increase (decrease) in cash and cash equivalents	7,399	2,181	(2,249)
Effect of exchange rate changes on cash and cash equivalents	58	(7)	(129)
Cash and cash equivalents at beginning of year	5,850	3,676	6,054
Cash and cash equivalents at end of year	\$ 13,307	\$ 5,850	\$ 3,676
Cash paid during the period for:			
Interest	\$ 1,068	\$ 685	\$ 51
Income taxes	\$ 13,389	\$ 12,692	\$ 7,155
Non-cash transactions:			
Investment in joint venture from conversion of account receivable	\$ 1,700	\$ --	\$ --
Equipment acquired under capital leases	\$ --	\$ 513	\$ 1,327

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

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(TABLES IN THOUSANDS EXCEPT FOR SHARE AND PER SHARE DATA)

A. DESCRIPTION OF BUSINESS:

Mercury Computer Systems, Inc. (the "Company") designs, manufactures and markets high-performance real-time digital signal processing computer systems, which transform sensor-generated data into information that can be displayed as images for human interpretation or subjected to additional computer analysis. These multicomputer systems are heterogeneous and scalable, allowing them to accommodate several different microprocessor types and to scale from a few to hundreds of microprocessors within a single system. The primary markets for the Company's products are defense electronics, medical diagnostic imaging, and other commercial applications. These markets have computing needs, which benefit from the unique system architecture developed by the Company.

B. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

BASIS OF PRESENTATION

The consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. All significant intercompany transactions and balances have been eliminated.

USE OF ESTIMATES

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the dates of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates.

REVENUE RECOGNITION

Revenue related to products is recognized upon shipment provided that title and risk of loss has passed to the customer, there is persuasive evidence of an arrangement, the sales price is fixed and determinable, collection of the related receivable is reasonably assured and customer acceptance criteria have been successfully demonstrated. For products with acceptance criteria that are not successfully demonstrated prior to shipment, revenue is recognized upon customer acceptance. The Company accrues for anticipated warranty costs upon shipment. Service revenue is recognized ratably over applicable contract periods or as the services are performed.

For certain eligible contracts eligible under AICPA Statement of Position 81-1, revenue is recognized using the percentage-of-completion accounting method based on contract costs incurred to date compared with total estimated contract costs. Changes to total estimated costs and anticipated losses, if any, are recognized in the period in which determined. Approximately \$1,789,000 of revenue was recognized for the year ended June 30, 2001 under the percentage-of-completion method, and no revenue was recognized for the year ended June 30, 2000 or 1999 under the percentage-of-completion method.

BILLINGS IN EXCESS OF REVENUES AND CUSTOMER ADVANCES

Billings in excess of revenues and customer advances include amounts billed on uncompleted contracts and amounts billed on annual maintenance contracts.

CASH AND CASH EQUIVALENTS

Cash equivalents, consisting of money market funds and U.S. government and U.S. government agency issues with original maturities of 90 days or less, are carried at fair market value.

MARKETABLE SECURITIES

The Company classifies investments in marketable securities as either trading, available-for-sale or held-to-maturity at the time of purchase and periodically re-evaluates such classification. There were no securities classified as trading or held-to-maturity as of June 30, 2001 and 2000. Securities are classified as held-to-maturity when the Company has the positive intent and ability to hold the securities to maturity. Held-to-maturity securities are stated at cost with corresponding premiums or discounts amortized over the life of the investment to interest income. Securities classified as available-for-sale are reported at fair market value. Unrealized gains or losses on available-for-sale securities are included, net of tax, in accumulated other comprehensive income until disposition. Realized gains and losses and declines in value judged to be other than temporary on available-for-sale securities are included in other income. The cost of securities sold is based on the specific identification method.

The fair market value of cash equivalents and short-term and long-term investments in marketable securities represents the quoted market prices at the balance sheet dates. The short-term marketable securities have original maturities greater than 90 days and remaining maturities less than one year. Long-term marketable securities have remaining maturities greater than one

year. Long-term marketable securities have maturities of one to three years. At June 30, 2001 and 2000, marketable securities were classified as follows:

	2001 Available- For-Sale	2000 Available- For-Sale

Short-term marketable securities:		
Tax-exempt municipal notes and bonds and money market instruments	\$54,135	\$36,784
Long-term marketable securities:		
Tax exempt municipal notes and bonds, taxable corporate bonds, government agencies	\$28,166	\$25,705

CONCENTRATION OF CREDIT RISK

Financial instruments that potentially expose the Company to concentrations of credit risk consist principally of cash, marketable securities and trade accounts receivable. The Company places its cash and cash equivalents with financial institutions which management believes are of high credit quality. At June 30, 2001 and 2000, the Company had approximately \$5,613,000 and \$3,088,000, respectively, on deposit or invested with its primary financial and lending institution.

At June 30, 2001 and 2000, only one customer comprised 10% or more of the Company's receivables. Customer "A" represented 25% of the Company's receivables at June 30, 2001 and 2000.

INVENTORY

Inventory is stated at the lower of cost, determined on the first-in, first-out (FIFO) basis, or market.

PROPERTY AND EQUIPMENT

Property and equipment are recorded at cost. Equipment under capital lease is recorded at the present value of the minimum lease payments required during the lease period. Depreciation is based on the following estimated useful lives of the assets using the straight-line method:

Computer equipment	3 years
Machinery and equipment	5 years
Furniture and fixtures	5 years
Buildings	15 - 30 years
Building improvements	10 years
Leasehold improvements	Shorter of the lease term or economic life

Expenditures for additions, renewals and betterment of property and equipment are capitalized. Expenditures for repairs and maintenance are charged to expense as incurred. As assets are retired or sold, the related cost and accumulated depreciation are removed from the accounts and any resulting gain or loss is included in the results of operations.

CAPITALIZED SOFTWARE DEVELOPMENT COSTS

The Company capitalizes software development costs incurred after a product's technological feasibility has been established and before it is available for general release to customers. Amortization of capitalized software costs is computed on an individual product basis and is the greater of a) the ratio that current gross revenues for a product bear to the total of current and anticipated future gross revenues for that product or b) the straight-line method over the estimated economic life of the product. The Company uses an estimated life of 2 years or less for all capitalized software costs.

RESEARCH AND DEVELOPMENT COSTS

Research and development costs are expensed as incurred.

INCOME TAXES

The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the Company's consolidated financial statements. Under this method, deferred tax liabilities and assets are determined based on the difference between the financial statement and tax basis of assets and liabilities using currently enacted tax rates for the year in which the differences are expected to reverse. The Company records a valuation allowance against net deferred tax assets if, based upon the available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized.

NET INCOME PER COMMON SHARE

The Company previously adopted SFAS No. 128, "Earnings per Share" (Statement 128). Statement 128 specifies the calculation and presentation of basic and diluted net income per share. Basic net income per common share is calculated by dividing net income by the weighted average number of common shares outstanding during the period. Diluted net income per common share is calculated by dividing net income by the sum of the weighted average number of common shares plus additional common shares that would have been outstanding if potential dilutive common shares had been issued for granted stock options.

FOREIGN CURRENCY

The accounts of foreign subsidiaries are translated using exchange rates in effect at period-end for assets and liabilities and at average exchange rates during the period for results of operations. Euros are used as the functional currency for subsidiaries in France and the Netherlands, while local currency is used as functional currency in the United Kingdom and Japan. The related translation adjustments are reported in accumulated other comprehensive income in stockholders' equity. Gains (losses) resulting from foreign currency transactions are included in other income (expense) and are immaterial for all periods presented.

RECLASSIFICATION

Certain reclassifications have been made to the prior years' financial statements to conform to the current year's presentation.

NEW ACCOUNTING PRONOUNCEMENTS

In December 1999, the Securities and Exchange Commission issued Staff Accounting Bulletin No 101 ("SAB 101"), "Revenue Recognition". SAB 101 summarizes the staff's view in applying generally accepted accounting principles to revenue recognition. The Company adopted SAB 101 in fiscal year 2001. The adoption did not have a material effect on its financial statements.

The Company adopted SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities" as amended by SFAS No. 137 and SFAS No. 138 in the first fiscal quarter of 2001. SFAS No. 133 requires the Company to recognize all derivatives on the balance sheet at fair value. Adoption of SFAS No. 133 did not have an impact on the Company's financial position or results of operations.

In July 2001, the FASB issued SFAS No. 141, "Business Combinations" and SFAS No. 142, "Goodwill and Other Intangible Assets." SFAS No. 141 requires that all business combinations be accounted for under the purchase method only and that certain acquired intangible assets in a business combination be recognized as assets apart from goodwill. SFAS No. 142 requires that ratable amortization of goodwill be replaced with periodic tests of the goodwill's impairment and that intangible assets other than goodwill be amortized over their useful lives. SFAS No. 141 is effective for all business combinations initiated after June 30, 2001 and for all business combinations accounted for by the purchase method for which the date of acquisition is after June 30, 2001. The provisions of SFAS No. 142 are required to be adopted for fiscal years beginning after December 15, 2001, however, the Company has adopted SFAS No. 142 early, as of July 1, 2001. The adoption of SFAS No. 142 had no impact on the Company's financial position or results of operations.

C. NET INCOME PER COMMON SHARE:

The following table sets forth the computation of basic and diluted net income per common share:

FOR THE YEARS ENDED JUNE 30,	2001	2000	1999
Net income	\$30,684	\$24,896	\$13,462
Shares used in computation of net income per share - basic	21,576	21,000	20,336
effect of dilutive securities:			
Stock options	1,528	1,703	1,264
Shares used in computation of diluted net income per share	23,104	22,703	21,600
Net income per share - basic	\$ 1.42	\$ 1.19	\$ 0.66
Net income per share - dilutive	\$ 1.33	\$ 1.10	\$ 0.62

Options to purchase 110,538 shares of common stock in 2001, 141,000 shares in 2000, and 222,000 in 1999 were outstanding during the years then ended, but were not included in the year-to-date calculation of diluted net income per share because the options' exercise price was greater than the average market price of the common shares during those periods.

D. INVENTORY:

Inventory consists of the following:

JUNE 30,	2001	2000
Raw materials	\$ 6,109	\$ 4,252
Work in process	4,301	7,415
Finished goods	2,430	4,308
Total	\$12,840	\$15,975

E. PROPERTY AND EQUIPMENT:

Property and equipment consists of the following:

JUNE 30,	2001	2000
Computer equipment and software	\$ 28,599	\$ 22,406
Buildings	15,832	15,819
Land	2,985	2,985
Machinery and equipment	661	605
Furniture and fixtures	4,462	3,709
Building and leasehold improvements	1,865	1,585
Less: accumulated depreciation and amortization	(25,611)	(19,535)
	\$ 28,793	\$ 27,574

F. COMMITMENTS AND CONTINGENCIES:

LONG-TERM DEBT FINANCING ARRANGEMENT

Long-term debt at June 30, 2001 and 2000 consisted of the following:

	2001	2000
Notes payable	\$13,606	\$14,182
Less current maturities	621	577
	\$12,985	\$13,605

On November 3, 1999, the Company completed a lending agreement with a commercial financing company, issuing two 7.30% senior secured financing notes ("the Notes"), due November 2014. The original principal value of the Notes amounted to \$14,500,000. The Notes are collateralized by the company's corporate headquarters which consists of two buildings. The Notes' agreements contain certain covenants, which, among other provisions, require the Company to maintain a minimum net worth. As of June 30, 2001, the Company was in compliance with the covenants of the Notes' agreements.

Maturities of long term debt are as follows:

Year Ending June 30,	
2002	\$ 621
2003	667
2004	718
2005	772
2006	830
Thereafter	9,998
	\$13,606

LEGAL

In July 1999, a former employee brought a wrongful termination action against the Company and certain officers of the Company. The plaintiff seeks severance pay, the right to purchase 60,000 shares of the Company's common stock at a price of \$2.00 per share, the right to exercise 96,000 stock options at an exercise price of \$2.00 per share, and other financial consideration. Binding arbitration has commenced but no ruling has been decided. The position of the Company's management after consultation with external counsel, is that a loss from this action is not probable. Accordingly, no loss accrual has been recorded. If the plaintiff were to prevail on its claims, depending on the price of the Company's common stock, a judgement for a material amount could be awarded against the Company. The Company has objected to the claims and is aggressively defending the matter.

LEASE COMMITMENTS

The Company leases certain facilities, machinery and equipment under capital and operating leases expiring in various years through 2004 and thereafter. The leases contain various renewal options. Rental charges are subject to escalation for increases in certain operating costs of the lessor.

Minimum lease payments under operating and capital leases are as follows:

YEAR ENDING JUNE 30,	Operating lease		Capital Lease
	Real Estate	Equipment	Equipment
2002	\$ 526	--	\$ 325
2003	296	--	95
2004	242	--	--
	-----		-----
Total minimum lease payments	\$ 1,064	--	\$ 420
	=====		-----
Less: amounts representing interest			20

Present value of minimum lease payments			400
Less: current portion			292

Long-term portion			\$ 108
			=====

Rental expense during the fiscal years ended June 30, 2001, 2000 and 1999 was approximately \$506,000, \$524,000 and \$1,116,000, respectively.

G. STOCKHOLDERS' EQUITY:

The Company is authorized to issue 1,000,000 shares of preferred stock with a par value of \$.01 per share.

COMMON STOCK

On November 18, 1999, the Company's Board of Directors authorized a two-for-one stock split effected in the form of a 100% stock dividend distributed on December 21, 1999 to shareholders of record as of December 6, 1999. As a result of the stock split, the accompanying consolidated financial statements reflect an increase in the number of outstanding shares of common stock and the transfer of the par value of these additional shares from paid-in capital. All share and per share amounts have been restated to reflect the retroactive effect of the stock split, except the capitalization of the Company.

H. STOCK BASED COMPENSATION:

At June 30, 2001, the Company had both stock option plans and a stock purchase plan. The Company has adopted SFAS No. 123, "Accounting for Stock-Based Compensation" SFAS No. 123 requires that companies either recognize compensation expense for grants of stock, stock options and other equity instruments based on fair value or provide pro forma disclosure of net income and earnings per share in the notes to the financial statements. The Company adopted the disclosure provisions of SFAS No. 123 and has applied APB Opinion No. 25 and related interpretations in accounting for all of its stock option and employee stock purchase plans. Compensation cost is measured as the excess, if any, of the fair market value of the Company's stock at the date of grant over the amount an individual must pay to acquire the stock. Compensation expense recognized for stock based compensation amounted to \$411,000, \$424,000, and \$46,000 for the fiscal years ended June 30, 2001, 2000, and 1999, respectively.

STOCK OPTION PLANS

The Company has five stock option plans. The 1982, 1991, and 1993 Stock Option Plans (the "Plans") provide for the granting of options to purchase an aggregate of not more than 1,950,000 shares of the Company's common stock to employees and directors. Under these plans, options are granted at not less than the fair value of the stock on the date of grant as determined by the Board. The terms of the options are established by the Board on an individual basis. The options generally vest between three and five years and have a maximum term of ten years.

The 1997 Stock Option Plan (the "1997 Plan"), which the Board approved in June 1997, provides for the granting of options to purchase an aggregate of not more than 2,650,000 shares, adjusted for a two-for-one stock split, of the Company's common stock. The Plan provides for the grant of non-qualified and incentive stock options to employees. Incentive stock options are granted at a price set by the Board of Directors not to be less than 100% of the fair value at the date of the grant. Non-qualified stock options are granted at not less than 50% of the fair value of the stock on the date of grant as determined by the Board. The options vest over five years and have a maximum term of ten years. In 1999, an amendment to the plan was adopted by the Board of Directors of the Corporation, which provided for an increase in the number of shares reserved for issuance under the Plan from 2,650,000 shares, adjusted for a two-for-one stock split, of common stock to 4,650,000 shares, adjusted for a two-for-one stock split, and a reduction in the vesting period for future options from five to four years. With the implementation of the

1997 Plan, no further stock options were granted under the 1982 and 1991 Stock Option Plans.

The 1998 Stock Option Plan (the "1998 Plan"), which the Board approved in September 1998, provides for the granting of options to purchase an aggregate of not more than 100,000 shares, adjusted for a two-for-one stock split, of the Company's common stock. The Plan provides for the grant of non-qualified stock options to non-employee directors. Non-qualified stock options are granted at fair value of the stock at the date of the grant as determined by the Board of Directors. The options vest over three years and have a maximum term of ten years. With the implementation of the 1998 Plan, no further stock options were granted under the 1993 Stock Option Plan. In August 2001, the 1998 Plan was terminated.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Fair Value of Options Granted
Outstanding at June 30, 1998	2,189,124	\$3.06	
Granted	1,271,410	9.65	\$6.04
Exercised	(618,324)	1.97	
Canceled	(76,454)	5.18	
Outstanding at June 30, 1999	2,765,756	6.27	
Granted	928,684	26.42	\$19.03
Exercised	(734,592)	4.09	
Canceled	(258,000)	8.67	
Outstanding at June 30, 2000	2,701,848	13.56	
Granted	920,870	34.07	\$24.49
Exercised	(386,032)	8.79	
Canceled	(192,647)	17.35	
Outstanding at June 30, 2001	3,044,039	20.10	

Information related to the stock options outstanding as of June 30, 2001, is as follows:

RANGE OF EXERCISE PRICES	Number of Options	Weighted Average Remaining CONTRACTUAL LIFE	Weighted Average EXERCISE PRICE	Exercisable Number of Options	Exercisable Weighted Average Exercise Price
\$ 1.25 - \$ 4.00	516,802	5.74	\$ 3.02	291,962	\$ 2.87
\$ 5.00 - \$ 8.84	446,970	7.13	7.99	115,578	7.99
\$ 9.56 - \$ 14.50	455,534	7.71	11.87	102,956	11.79
\$ 14.94 - \$ 23.44	447,950	8.31	21.24	76,716	21.49
\$ 24.25 - \$ 30.06	602,433	9.19	28.16	19,000	25.57
\$ 33.13 - \$ 48.00	517,650	9.15	41.02	58,450	39.86
\$ 51.30 - \$ 52.00	56,700	9.90	51.89	-	-
	3,044,039	7.96	20.10	664,662	11.19

There were 409,029 and 605,612 options exercisable at June 30, 2000 and 1999, respectively, with weighted average exercise prices of \$5.32 and \$2.77. The fair value of each option granted during fiscal years ended June 30, 2001, 2000 and 1999, is estimated on the date of grant using the Black-Scholes option-pricing model utilizing the following weighted-average assumptions: (1) expected risk-free interest rate of 4.97% in 2001, 6.34% in 2000 and 4.90% in 1999; (2) expected option life of 6 years; (3) expected stock volatility of 80% for June 30, 2001, 77% for June 30, 2000 and 63% for June 30, 1999; and (4) expected dividend yield of 0.0%.

EMPLOYEE STOCK PURCHASE PLAN

During 1997, the Company adopted the 1997 Employee Stock Purchase Plan ("ESPP") and authorized 500,000 shares, adjusted for a two-for-one stock split, for future issuance under which rights are granted to purchase shares of common stock at 85% of the lesser of the market value of such shares at either the beginning or the end of each six-month offering period. The plan permits employees to purchase common stock through payroll deductions, which may not exceed 10% of an employee's

compensation as defined in the plan. During the two offerings in fiscal 2001, the Company issued 16,949 and 14,115 shares of common stock to employees who participated in the plan at prices of \$27.04 and \$34.85, respectively. Shares available for future purchase under the ESPP totaled 373,697 at June 30, 2001.

The weighted-average fair value of purchase rights granted in fiscal 2001, 2000, and 1999 was \$13.52, \$8.40, and \$3.23, respectively. The fair value of the employees' purchase rights was estimated using the Black-Scholes model with the following assumptions: (1) dividend yield of 0.0%, (2) an expected life of six months, (3) expected volatility of 80% for June 30, 2001, 77% for June 30, 2000, and 63% for June 30, 1999; and, (4) risk-free interest rate of 3.63% for June 30, 2001, 5.25% for June 30, 2000, and 4.90% for June 30, 1999.

Had compensation cost for the Company's stock option grants and stock issued in conjunction with the ESPP been determined based on the fair value at the grant dates, as calculated in accordance with SFAS No. 123, the Company's net income and net income per common share for the fiscal years ended June 30, 2001, 2000 and 1999, would approximate the following pro forma amounts as compared to the amounts reported:

	NET INCOME	Net Income per COMMON SHARE - BASIC	Net Income per COMMON SHARE - DILUTED
As reported:			
2001	\$ 30,684	\$ 1.42	\$ 1.33
2000	\$ 24,896	\$ 1.19	\$ 1.10
1999	\$ 13,462	\$ 0.66	\$ 0.62
Pro forma:			
2001	\$ 22,214	\$ 1.03	\$ 0.96
2000	\$ 20,791	\$ 0.99	\$ 0.92
1999	\$ 11,950	\$ 0.59	\$ 0.55

The effects of applying SFAS No. 123 in this disclosure are not indicative of future amounts. SFAS No. 123 does not apply to awards prior to 1995 and additional awards in future years are anticipated.

I. INCOME TAXES:

Income tax expense consisted of the following:

YEAR ENDED JUNE 30,	2001	2000	1999
	-----	-----	-----
Federal:			
Current	\$ 15,642	\$ 10,081	\$ 6,377
Deferred	(2,382)	544	(479)
	-----	-----	-----
	13,260	10,625	5,898
State:			
Current	1,374	755	1,295
Deferred	(335)	46	(708)
	-----	-----	-----
	1,039	801	587
Foreign - current	141	23	146
	-----	-----	-----
	\$ 14,440	\$ 11,449	\$ 6,631
	=====	=====	=====

The following is a reconciliation between the statutory provision for federal income taxes and the effective income tax expense:

YEAR ENDED JUNE 30,	2001	2000	1999
	-----	-----	-----
Income taxes at federal statutory rates	35.0%	35.0%	35.0%
State income tax, net of federal tax benefit	1.5	1.3	1.9
Research and development credits	(2.1)	(3.4)	(3.8)
Tax-exempt interest income	(1.9)	(1.6)	(1.8)
Other	(0.5)	0.2	1.7
	----	----	----
	32.0%	31.5%	33.0%
	=====	=====	=====

The components of the net deferred tax asset are as follows:

JUNE 30,	2001	2000
	-----	-----
Receivable allowances and inventory valuations	\$1,698	\$1,083
Accrued vacation	1,126	402
Property and equipment	112	167
State tax credit carryforwards	811	620
Deferred compensation	126	--
Joint venture loss allocation	1,157	--
Other temporary differences	383	424
	-----	-----
Total deferred tax asset, net	\$5,413	\$2,696
	=====	=====

No valuation allowance was deemed necessary for the deferred tax asset. Management believes it is more likely than not that all of the deferred tax asset will be realized.

At June 30, 2001, the Company had state research and development tax credit carryforwards of approximately \$1,247,000 which begin to expire in 2014.

J. EMPLOYEE BENEFIT PLANS:

The Company maintains a qualified 401(k) Plan and up until December 31, 1999, maintained a qualified profit sharing 401(a) Plan. The 401(k) plan covers employees who have attained the age of 21. Employee contributions to the 401(k) Plan may range from 1% to 15% of compensation with a discretionary matching Company contribution. Effective January 1, 2000, the Company began matching up to 3% of compensation. Previously, the company matched up to 2% of compensation. The Company may also make optional contributions to the plan for any plan year at its discretion. The Company terminated its 401(a) Plan as of December 31, 1999.

Expense recognized by the Company under the 401(a) and 401(k) Plans was approximately \$1,048,000, \$788,000 and \$1,000,000 during the years ended June 30, 2001, 2000 and 1999, respectively.

The Company maintains a bonus plan, which provides cash awards to employees based upon operating results and employee performance. Bonus expense to employees was approximately \$6,416,000, \$4,499,000, and \$2,753,000 during the years ended June 30, 2001, 2000 and 1999, respectively.

K. OPERATING SEGMENT AND GEOGRAPHIC INFORMATION:

The Company adopted SFAS No. 131 "Disclosures about Segments of an Enterprise and Related Information" (Statement No. 131), in fiscal 1999. This Statement supersedes SFAS No. 14 "Financial Reporting for Segments of a Business Enterprise," but retains the requirement to report information about major customers. This statement establishes standards for reporting information about operating segments in annual financial statements and requires selected information about operating segments in interim financial reports issued to stockholders. It also establishes standards for related disclosures about products and services and geographic areas.

Operating segments are defined as components of an enterprise evaluated regularly by the Company's senior management in deciding how to allocate resources and in assessing performance. The Company has six principal operating segments: North American Defense, Medical Imaging, Commercial, International Defense and Commercial, Wireless Communications, and Research and Development. These operating segments were determined based upon the nature of the products offered to customers, the market characteristics of each operating segment, and the Company's management structure. The Company has five reportable segments: North American Defense, Medical Imaging segment, Commercial segment, Other Defense and Commercial segment, and Research and Development segment. The Other Defense and Commercial segment is comprised of International Defense, Wireless Communications, and Other Commercial businesses unrelated to the defense or medical businesses. These operating segments are not separately reported, as they do not meet any of Statement No. 131's quantitative thresholds. A new commercial operating segment was established during the first quarter of fiscal 2000. Previously, most commercial businesses were included within the North American and International operating segments. Historical information was not restated to reflect this business reorganization because it is impractical to obtain the necessary information.

The accounting policies of the business segments are the same as those described in "Note B: Summary of Significant Accounting Policies".

	North American Defense Segment(2)	Medical Imaging Segment	Commercial Segment	Other Defense and Commercial Segment(2)	Research and Development Segment	Corporate	Consolidated
TWELVE MONTHS ENDED JUNE 30, 2001							
Sales to unaffiliated customers	\$107,998	\$ 43,456	\$ 15,361	\$ 13,677	\$ --	\$ --	\$180,492
Income (loss) before taxes (1)	74,238	14,208	7,310	905	(27,605)	(23,932)	45,124
Depreciation/amortization expense	829	66	13	264	1,733	3,223	6,128
TWELVE MONTHS ENDED JUNE 30, 2000							
Sales to unaffiliated customers	\$ 96,901	\$ 27,093	\$ --	\$ 16,950	\$ --	\$ --	\$140,944
Income (loss) before taxes (1)	66,889	10,510	--	4,145	(27,740)	(17,459)	36,345
Depreciation/amortization expense	427	41	--	332	1,218	3,081	5,099
TWELVE MONTHS ENDED JUNE 30, 1999							
Sales to unaffiliated customers	\$ 79,906	\$ 15,295	\$ --	\$ 11,370	\$ --	\$ --	\$106,571
Income (loss) before taxes (1)	53,174	6,353	--	972	(19,639)	(20,767)	20,093
Depreciation/amortization expense	191	70	--	113	1,263	2,881	4,518

(1) Interest income, interest expense and foreign exchange gain/(loss) are reported in Corporate and not allocated to the principal operating segments. Only expenses directly related to an operating segment are charged to the appropriate operating segment. All other expenses for marketing and administrative support activities that cannot be specifically identified with a principal operating segment are allocated to Corporate.

(2) The North American Defense and the Other Defense and Commercial segment differ in definition from the defense market segment described in the Company's management discussion and analysis ("MD&A"). The Defense market segment in the MD&A refers to the worldwide defense market. The North American Defense and the Other Defense and Commercial are operating segments as defined by Statement No. 131, and are subsets of the worldwide defense market discussed in the MD&A.

Foreign revenue is based on the country in which the legal subsidiary is domiciled. Foreign revenue and long-lived assets represent less than 10% of the Company's total revenue and total long-lived assets for the fiscal years ended June 30, 2001, 2000 and 1999 respectively.

Customers comprising 10% or more of the Company's revenues for the periods shown below are as follows:

YEAR ENDED JUNE 30,	2001	2000	1999
Customer E	18%	14%	16%
Customer B	14%	19%	22%
Customer D	13%	12%	12%
Customer A	--	12%	--

L. SALE OF DIVISION:

On January 18, 2000, the Company completed the sale of the SSBU to IBM. Payments are structured with an initial payment of \$4,500,000 (excluding \$1,000,000 to be held in escrow and payable on a contingent basis), followed by 12 quarterly contingent payments of \$1,500,000 plus interest. The quarterly payments are contingent upon IBM's continued use of the technology. If IBM defaults, Mercury has the right to recover the assets, including the patent and other intellectual property. The contingency payments of \$1,500,000 per quarter are recognized when collected. During the twelve month period ended June 30, 2001, the Company recorded a \$6,400,000 gain on the sale of this division. During the twelve months ended June 30, 2000, the Company recorded a \$4,820,000 gain on the sale of this division which includes cash received of \$6,100,000 less legal and advisory costs of \$581,000, costs reimbursable to IBM of \$499,000, and the net book value of equipment and inventories sold of \$200,000.

M. EQUITY LOSS IN JOINT VENTURE:

In September 1999, the Company formed AgileVision as a joint venture with Sarnoff Corporation, the developer of color television and a pioneer in the creation of digital television ("DTV"). AgileVision provides broadcasters and cable providers equipment to optimize their DTV investment and develop new broadband media commerce revenue streams, including master control systems that permit broadcasters to perform multiple functions on a single platform that previously would have required the engineering and integration of numerous discrete products and systems. The Company's investment in AgileVision

amounted to \$3,400,000 and \$3,500,000 during the years ended June 30, 2001 and 2000, respectively. The Company recognized \$3,310,000 and \$3,721,000 of losses on the equity-basis of accounting related to the operations of AgileVision during the years ended June 30, 2001 and 2000, respectively.

Summarized Income Statement results for AgileVision during the years ended June 30, 2001 and 2000 are as follows:

Year ended June 30,	2001	2000
	-----	-----
Expenses	\$(4,733)	\$(6,723)
Loss from continuing operations	\$(4,733)	\$(6,723)
Net loss	\$(4,733)	\$(6,723)

Summarized Statement of Financial Position of AgileVision as of June 30, 2001 and 2000:

Year ended June 30,	2001	2000
	-----	-----
Current assets	\$ 471	\$ 1,009
Non-current assets	37	12
Total assets	\$ 508	\$ 1,021
	=====	=====
Current liabilities	\$ 6,864	\$ 2,744
Shareholders' equity	(6,356)	(1,723)
Total liabilities and equity	\$ 508	\$ 1,021
	=====	=====

REPORT OF INDEPENDENT ACCOUNTANTS

To the Board of Directors and
Stockholders of Mercury Computer Systems, Inc.:

In our opinion, the consolidated financial statements listed in index appearing under Item 14(a)(1) on page 37 present fairly, in all material respects, the financial position of Mercury Computer Systems, Inc. and its subsidiaries at June 30, 2001 and June 30, 2000, and the results of their operations and their cash flows for each of the three years in the period ended June 30, 2001 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the index appearing under Item 14(a)(2) on page 38 presents fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. These financial statements and financial statement schedule are the responsibility of the Company's management; our responsibility is to express an opinion on these financial statements and financial statement schedule based on our audits. We conducted our audits of these statements in accordance with auditing standards generally accepted in the United States of America, which require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

PricewaterhouseCoopers LLP

Boston, Massachusetts
July 27, 2001

SUPPLEMENTARY INFORMATION (UNAUDITED)

The following sets forth certain unaudited consolidated quarterly statements of operations data for each of the Company's last eight quarters. In management's opinion, this quarterly information reflects all adjustments, consisting only of normal recurring adjustments, necessary for a fair presentation for the periods presented. Such quarterly results are not necessarily indicative of future results of operations and should be read in conjunction with the audited consolidated financial statements of the Company and the notes thereto included elsewhere herein.

2001	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
Revenues	\$ 41,469	\$ 43,325	\$ 46,953	\$ 48,745
Cost of revenues	13,124	14,189	15,274	17,228
Gross profit	28,345	29,136	31,679	31,517
Operating expenses:				
Selling, general and administrative	12,123	12,779	12,607	13,127
Research and development	6,743	7,954	8,047	7,740
Total operating expenses	18,866	20,733	20,654	20,867
Income from operations	9,479	8,403	11,025	10,650
Interest income	928	1,004	995	1,050
Interest expense	(275)	(268)	(263)	(259)
Equity loss in joint venture	(1,235)	(476)	(1,356)	(243)
Gain on sale of division, net	1,600	1,600	1,600	1,600
Other income (expense), net	(43)	(104)	(323)	35
Income before taxes	10,454	10,159	11,678	12,833
Provision for income taxes	3,345	3,251	3,737	4,107
Net income	\$ 7,109	\$ 6,908	\$ 7,941	\$ 8,726
Net income per common share:				
Basic	\$ 0.33	\$ 0.32	\$ 0.37	\$ 0.40
Diluted	\$ 0.31	\$ 0.30	\$ 0.34	\$ 0.37

2000	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
Revenues	\$ 37,863	\$ 35,405	\$ 32,351	\$ 35,325
Cost of revenues	10,037	9,333	9,388	10,388
Gross profit	27,826	26,072	22,963	24,937
Operating expenses:				
Selling, general and administrative	9,105	10,144	10,060	10,166
Research and development	5,537	6,851	7,445	9,029
Total operating expenses	14,642	16,995	17,505	19,195
Income from operations	13,184	9,077	5,458	5,742
Interest income	322	574	751	783
Interest expense	(18)	(106)	(282)	(325)
Equity loss in joint venture	(515)	(926)	(1,136)	(1,144)
Gain on sale of division, net	--	--	3,220	1,600
Other income (expense), net	(16)	93	53	(44)
Income before taxes	12,957	8,712	8,064	6,612
Provision for income taxes	4,665	2,876	1,974	1,934
Net income	\$ 8,292	\$ 5,836	\$ 6,090	\$ 4,678
Net income per common share:				
Basic	\$ 0.40	\$ 0.28	\$ 0.29	\$ 0.22
Diluted	\$ 0.37	\$ 0.26	\$ 0.26	\$ 0.20

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

PART III

ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT

The information required by this item is incorporated herein by reference to the Company's Proxy Statement.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this item is incorporated herein by reference to the Company's Proxy Statement.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The information required by this item is incorporated herein by reference to the Company's Proxy Statement.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

None

PART IV

ITEM 14. EXHIBITS, FINANCIAL STATEMENT SCHEDULES, AND REPORTS ON FORM 8-K

(a) FINANCIAL STATEMENTS, SCHEDULES AND EXHIBITS

The financial statements, schedule, and exhibits listed below are included in or incorporated by reference as part of this report:

1. Financial statements:

Consolidated Balance Sheets as of June 30, 2001 and 2000
Consolidated Statements of Operations for the years ended June 30, 2001, 2000, and 1999
Consolidated Statements of Changes in Stockholders' Equity for the years ended June 30, 2001, 2000, and 1999
Consolidated Statements of Cash Flows for the years ended June 30, 2001, 2000, and 1999
Notes to Consolidated Financial Statements

2. Financial Statement Schedule:

II. Valuation and Qualifying Accounts

MERCURY COMPUTER SYSTEMS, INC.
 SCHEDULE II - VALUATION AND QUALIFYING ACCOUNTS
 FOR THE YEARS ENDED JUNE 30, 2001, 2000, AND 1999
 (IN THOUSANDS)

	BALANCE AT BEGINNING OF PERIOD -----	CHARGES TO EXPENSES -----	DEDUCTIONS -----	BALANCE AT END OF PERIOD -----
Allowance for Doubtful Accounts				
2001	\$308	\$324	\$32	\$600
2000	376	--	68	308
1999	218	249	91	376

	BALANCE AT BEGINNING OF PERIOD -----	CHARGES TO EXPENSES -----	DEDUCTIONS -----	BALANCE AT END OF PERIOD -----
Inventory Valuation				
2001	\$2,795	\$4,760	\$3,635	\$3,920
2000	\$3,039	1,012	1,256	2,795
1999	1,857	2,786	1,604	3,039

Charges to expenses for inventory are due to program cancellations, engineering change orders and obsolescence. Deductions are recorded when the inventory is written off. The Company wrote off \$3,635,000, \$1,256,000, and \$1,604,000 during the years ended June 30, 2001, 2000, and 1999 respectively, in inventory relating primarily to engineering change orders and obsolescence.

3. Exhibits:

Exhibits required by Item 601 of Regulation S-K are listed in the Exhibit Index on page 41, which is incorporated herein by reference.

(b) Reports on Form 8-K

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, in Chelmsford, Massachusetts, on September 21, 2001.

MERCURY COMPUTER SYSTEMS, INC.

By: /s/ G. MEAD WYMAN

G. MEAD WYMAN
SENIOR VICE PRESIDENT, CHIEF
FINANCIAL OFFICER AND TREASURER

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

SIGNATURE	TITLE(S)	DATE
/s/ JAMES R. BERTELLI ----- JAMES R. BERTELLI	President, Chief Executive Officer and Director (principal executive officer)	September 21, 2001
/s/ G. MEAD WYMAN ----- G. MEAD WYMAN	Senior Vice President, Chief Financial Officer and Treasurer (principal financial and accounting officer)	September 21, 2001
/s/ GORDON B. BATY ----- GORDON B. BATY	Director	September 21, 2001
/s/ ALBERT P. BELLE ISLE ----- ALBERT P. BELLE ISLE	Director	September 21, 2001
/s/ JAMES A. DWYER ----- JAMES A. DWYER	Director	September 21, 2001
/s/ RUSSELL K. JOHNSEN ----- RUSSELL K. JOHNSEN	Director	September 21, 2001
/s/ SHERMAN N. MULLIN ----- SHERMAN N. MULLIN	Director	September 21, 2001
/s/ MELVIN SALLEN ----- MELVIN SALLEN	Director	September 21, 2001

EXHIBIT INDEX

ITEM NO.	DESCRIPTION OF EXHIBIT
3.1	Articles of Organization. (incorporated herein by reference to Exhibit 3.1 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
3.2	Bylaws. (incorporated herein by reference to Exhibit 3.2 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
3.3	Articles of Amendment to Articles of Organization. (incorporated herein by reference to Exhibit 3.3 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
4.1	Form of Stock Certificate. (incorporated herein by reference to Exhibit 4.1 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.1	1982 Stock Option Plan, as amended. (incorporated herein by reference to Exhibit 10.1 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.2	1991 Stock Option Plan, as amended. (incorporated herein by reference to Exhibit 10.2 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.3	1993 Stock Option Plan for Non-Employee Directors. (incorporated herein by reference to Exhibit 10.3 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.4	1997 Stock Option Plan. (incorporated herein by reference to Exhibit 10.4 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.5	1997 Stock Purchase Plan. (incorporated herein by reference to Exhibit 10.5 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.6	Purchase and Sale Agreement, dated November 8, 1996 between Corcoran Chelmsford & Associates and Northland Development Corporation. (incorporated herein by reference to Exhibit 10.7 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.7#	Term Purchase Agreement, dated July 25, 1995 between the Company and Analog Devices, Inc. (incorporated herein by reference to Exhibit 10.8 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.8#	Risk Reproduction Agreement, dated March 20, 1996, between the Company and LSI Logic Corporation. (incorporated herein by reference to Exhibit 10.9 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.9#	Purchase Offer Agreement for OEM Manufacturer, dated February 16, 1995, between the Company & IBM Microelectronics Division. (incorporated herein by reference to Exhibit 10.10 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.10	Quitclaim Deed, dated October 1, 1997, executed by Corcoran Chelmsford & Associates Limited Partnership. (incorporated herein by reference to Exhibit 10.15 of the Company's Registration Statement on Form S-1 (File No. 333-41139))
10.11	1998 Stock Option Plan (incorporated herein by reference to Exhibit 10.11 of the Fiscal 1999 Form 10-K)
21.1*	Subsidiaries of the Registrant
23.1*	Consent of PricewaterhouseCoopers L.L.P.

* Filed with this Form 10-K. # Confidential treatment granted.

EXHIBIT 21.1

SUBSIDIARIES OF THE REGISTRANT

NAME	JURISDICTION OF ORGANIZATION
Mercury Computer Securities Corporation	Massachusetts
Riverneck Road	Delaware
199 Riverneck LLC	Delaware
Mercury Computer International Sales Corporation	Delaware
Mercury Computer Systems BV	The Netherlands
Nihon Mercury Computer Systems KK	Japan
Mercury Computer Systems SARL	France
Mercury Systems Ltd	United Kingdom
Mercury Computer Systems Export, Incorporated	Barbados

EXHIBIT 23.1

CONSENT OF INDEPENDENT ACCOUNTANTS

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (No. 333-53291 and 333-52864) of Mercury Computer Systems, Inc of our report dated July 27, 2001 relating to the financial statements and financial statement schedule, which appears in this Form 10-K.

PRICEWATERHOUSECOOPERS LLP

Boston, Massachusetts
September 28, 2001