

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

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**FORM 10-K**

**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934**

**For the year ended December 31, 2004**

**Commission File Number 000-30229**

**SONUS NETWORKS, INC.**

(Exact name of Registrant as specified in its charter)

<b>DELAWARE</b> (State or other jurisdiction of incorporation or organization)	<b>04-3387074</b> (I.R.S. employer identification no.)
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**250 Apollo Drive, Chelmsford, Massachusetts 01824**  
(Address of principal executive offices, including zip code)

**(978) 614-8100**  
(Registrant's telephone number, including area code)

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**Securities registered pursuant to Section 12(b) of the Act:**  
None

**Securities registered pursuant to Section 12(g) of the Act:**  
Common stock, \$0.001 par value

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

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 the 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.

Indicate by check mark whether the Registrant is an accelerated filer (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The aggregate market value of the common stock held by non-affiliates of the Registrant was approximately \$845,000,000 based on the closing price for the Common Stock on the NASDAQ National Market on June 30, 2004. As of February 28, 2005, there were 248,066,762 shares of common stock, \$0.001 par value per share, outstanding.

**DOCUMENTS INCORPORATED BY REFERENCE**

Certain information required in Part III of this report is incorporated by reference to specified portions of the Registrant's definitive Proxy Statement to be issued in conjunction with the Registrant's 2005 Annual Meeting of Shareholders, which is expected to be filed not later than 120 days after the Registrant's fiscal year ended December 31, 2004.

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**TABLE OF CONTENTS**

Item	Page
<b>Part I</b>	
1. Business	3
2. Properties	16
3. Legal Proceedings	16
4. Submission of Matters to a Vote of Security Holders	18
Executive Officers of the Registrant	18
<b>Part II</b>	
5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities	21
6. Selected Financial Data	22
7. Management's Discussion and Analysis of Financial Condition and Results of Operations	23
7A. Quantitative and Qualitative Disclosures about Market Risk	51
8. Financial Statements and Supplementary Data	51
9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	51
9A. Controls and Procedures	51
9B. Other Information	58
<b>Part III</b>	
10. Directors and Executive Officers of the Registrant	59
11. Executive Compensation	59
12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	59
13. Certain Relationships and Related Transactions	59
14. Principal Accountant Fees and Services	59
<b>Part IV</b>	
15. Exhibits and Financial Statement Schedules	60
Signatures	61
Management's Report on Internal Control Over Financial Reporting	M-1
Index to Consolidated Financial Statements	F-1
Exhibit Index	

## PART I

### ITEM 1. BUSINESS.

This Form 10-K, as well as all other reports filed with or furnished to the Securities and Exchange Commission (SEC), are available free of charge through our Internet site (<http://www.sonusnet.com>) as soon as practicable after we electronically file such material with, or furnish it to, the SEC. The public may read and copy any materials we file with the SEC at the SEC's Public Reference Room at 450 Fifth Street, NW, Washington, DC 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site (<http://www.sec.gov>) that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC.

#### Overview

We are a leading provider of voice infrastructure solutions for the new public network. Our products are a new generation of carrier-class switching equipment and software that enable voice services to be delivered over packet-based networks. Our target customers include new and established communications service providers, including long distance carriers, local exchange carriers, Internet service providers, wireless operators, cable operators, international telephone companies and carriers that provide services to other carriers. Many of these carriers have been building packet-based networks to support the dramatic growth in data traffic resulting from Internet use. Packet-based networks, which transport traffic in small bundles, or "packets," offer a significantly more flexible, cost-effective and efficient means for providing communications services than existing circuit-based networks, designed years ago to primarily deliver telephone calls.

Our suite of voice infrastructure solutions includes the GSX9000™ Open Services Switch, the Insignus™ Softswitch and the Sonus Insight™ Management System. Our products, designed for deployment as the foundation of a service provider's network, can significantly reduce the cost to build and operate voice services compared to traditional alternatives. Moreover, our products offer a powerful and open platform for service providers to increase their revenues through the creation and delivery of new and innovative voice and data services. Our switching equipment and software can be rapidly and easily deployed, and readily expanded to accommodate growth in traffic volumes. Our products also interoperate with service providers' existing telephone infrastructure, allowing them to preserve the investment in their current networks.

We have been recognized by three market research firms as the worldwide market share leader in several key segments of the carrier-class packet voice infrastructure equipment market. Our announced customers include many of the world's major service providers: Alestra (Mexico), America Online, AT&T, AT&T Wireless Services/Cingular, BellSouth Corporation, China Netcom, Epana Networks, Fusion Communications (Japan), Global Crossing, IDT Corp., Interoute, Level 3 Communications, NetVision (Israel), NTT Communications, Nuvox Communications, Qwest Communications, SOFTBANK BB, Time Warner Telecom, T-Systems International (a division of Deutsche Telekom Group), USA Datanet, Verizon Communications, Volo Communications, WebEx Communications and XO Communications. We sell our products principally through a direct sales force. We have expanded our access to new geographies and into new markets through distributors and resellers, including China Putian, Marconi, Motorola and Samsung. We also collaborate with our customers to identify and develop new advanced services and applications that they can offer to their customers.

In 2004, the challenging business environment in the telecommunications industry continued to affect the spending by service providers for products such as those we offer. While it remains uncertain as to the speed and extent of the adoption of carrier packet voice infrastructure products by large carriers, we believe that over time the market opportunity for packet voice solutions is substantial. Synergy Research Group projects that the market for service provider voice over Internet protocol equipment and software will grow to approximately \$2.7 billion in 2006. Our objective is to capitalize

on our early technology and market lead and build the premier franchise in voice infrastructure solutions for the new public network. The following are key elements of our strategy:

- leverage our technology leadership to achieve key service provider design wins;
- continue to extend our technology platform from the core of the network to the access edge;
- support the convergence of wireline and wireless all IP networks;
- expand and broaden our customer base by targeting specific market segments including network border switching;
- expand our global sales, marketing, support and distribution capabilities;
- grow our base of software applications and development partners;
- actively contribute to the standards definition and adoption process; and
- pursue strategic acquisitions and alliances.

Financial information about our segments and geographic areas from which we derive revenues is provided in Notes 1(d) and 1(p) to our consolidated financial statements.

### **Industry Background**

The public telephone network is an integral part of our everyday lives. For most of its 100-year history, the telephone industry has been heavily regulated, which has slowed the evolution of its underlying circuit-switching technologies and limited innovation in service offerings and the pricing of telephone services. Two global forces—deregulation and the expansion of the Internet—have revolutionized the public telephone network worldwide.

Deregulation of the telephone industry accelerated with the passage of the Telecommunications Act of 1996. The barriers that once restricted service providers to a specific geography or service offering, such as local or long distance, are disappearing. The opportunity created by opening up the telephone services market has encouraged new participants to enter the market and incumbent service providers to expand into new markets, both domestically as well as internationally. For example, certain incumbent regional service providers are receiving regulatory approval from the Federal Communications Commission allowing them to offer long-distance telephone service to in-region consumers and businesses. Some of these carriers may build-out their own long distance networks creating an opportunity for next generation, packet-voice solutions.

Competition between new players and incumbents is driving down service prices. With limited ability to reduce the cost structure of the public telephone network, profit margins for traditional telephone services are eroding. In response, service providers are seeking new, creative and differentiated services as a means to increase revenues and as an opportunity to reduce costs.

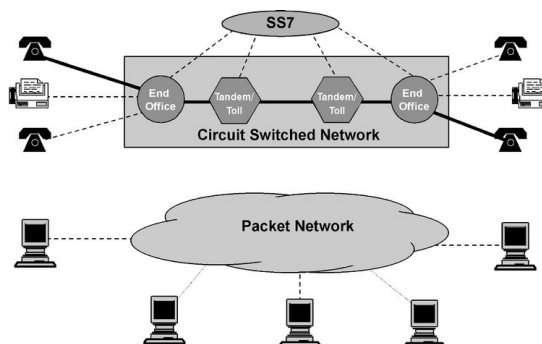
Simultaneously, the rapid adoption of the Internet and broadband connectivity is driving dramatic growth of data traffic. Today, a significant portion of this data traffic is carried over the traditional circuit-switched telephone network. However, the circuit-switched network, designed for voice traffic and built long before the advent of the Internet, is not suited to efficiently transport data traffic. In a circuit-switched network, a dedicated path, or circuit, is established for each call, reserving a fixed amount of capacity or bandwidth in each direction. The dedicated circuit is maintained for the duration of the call across all of the circuit switches spanning the path from origination to the destination of the call, even when no traffic is being sent. As a result, a circuit-switched architecture is highly inefficient for Internet applications, which tend to create large bursts of data traffic followed by long periods of silence.

In contrast, a packet network divides traffic into distinct units called packets and routes each packet independently. By combining traffic from users with differing capacity demands at different times, packet networks more efficiently fill available network bandwidth with packets of data from

many users, thereby reducing the bandwidth wasted due to silence from any single user. The volume of data traffic continues to increase as broadband and the number of connected users grows, driving service providers to build large-scale, more efficient packet networks.

With voice traffic carried over the vast installed base of traditional circuit-switched networks and data traffic carried over rapidly expanding packet networks, service providers are faced with the expense and complexity of building and maintaining parallel networks.

The following diagrams depict these parallel voice and data networks.



### The need for, and benefits of, combining voice and data networks

We believe significant opportunities exist in uniting these separate, parallel networks into a new integrated public network capable of transporting both voice and data traffic. Enormous potential savings can be realized by eliminating redundant or overlapping equipment purchases and reducing network operating costs. Also, combining traditional voice services with Internet or Web-based services in a single network is expected to enable new and powerful high-margin, revenue-generating service offerings such as voice virtual private networks (voice VPNs), one-number/follow-me services, unified messaging, conferencing, prepaid and postpaid card services and sophisticated call centers and other IP centrex services.

The packet network is the platform for the new public network. The volume of data traffic has already eclipsed voice traffic and is growing much faster than voice. Packet architectures are more efficient at moving data, are more flexible and reduce equipment and operating costs. The key to realizing the full potential of a converged, packet-based network is to enable the world's voice traffic to run over those networks.

Early attempts to develop new technologies to carry voice traffic over packet networks have included voice over Internet protocol, or VoIP, systems using a personal computer platform and devices that added VoIP capability to existing data devices such as remote access servers. While demonstrating the viability of transmitting voice over packet technology, these approaches fell far short of the quality, reliability and scalability required by the public telephone network.

The early VoIP systems also lacked the ability to interoperate with the signaling infrastructure of the circuit-switched network. Without this signaling capability, VoIP applications cannot provide the consistent "look, sound and feel" of traditional telephone calls and are not well-suited to more complex applications such as voicemail, unified messaging and other value-added services.

The public telephone network is large, highly complex and generates significant revenues, a substantial majority of which is derived from voice services. Given service providers' substantial investment in, and dependence upon, traditional circuit-switched technology, their transition to the new public network will be gradual.

## Requirements for voice infrastructure products for the new public network

Users demand high levels of quality and reliability from the public telephone network and service providers require a cost-efficient network that enables new revenue-generating services. As a result, carrier packet voice infrastructure products must satisfy the following requirements:

**Carrier-class performance.** Because they operate complex, mission-critical networks, service providers have clear infrastructure requirements. These include extremely high reliability, quality and interoperability. For example, service providers typically require equipment that complies with their 99.999% availability standard.

**Compatibility with standards and existing infrastructure.** New infrastructure equipment and software must support the full range of telephone network standards, including signaling protocols such as SS7 or ISDN and international signaling variants, and various physical interfaces such as T1 and E1. It must also support data networking protocols such as Internet protocol, or IP, and asynchronous transfer mode, or ATM, as well as telephony protocols such as SIP, SIP-T, MGCP, Megaco (H.248) and H.323. Infrastructure solutions must also seamlessly integrate with service providers' existing operations support systems.

**Scalability and density.** Carrier voice infrastructure solutions face challenging scalability requirements. Service providers' central offices typically support tens or even hundreds of thousands of simultaneous calls. In order to be economically attractive, the new infrastructure must compare favorably with existing networks in terms of cost per port, space occupied, power consumption and cooling requirements.

**Intelligent software in an open and flexible platform.** The architecture of packet voice infrastructure solutions decouples the capabilities of traditional circuit-switching equipment into robust hardware elements and highly intelligent software platforms that provide control, signaling and service creation capabilities. This approach is designed to transform the closed, proprietary circuit-switched public telephone network into a flexible, open environment accessible to a wide range of software developers. The objective is to permit service providers and third-party vendors to develop and implement new applications independent of switch vendors. Moreover, the proliferation of independent software providers promises to drive the creation of innovative voice and data services that could expand service provider revenues.

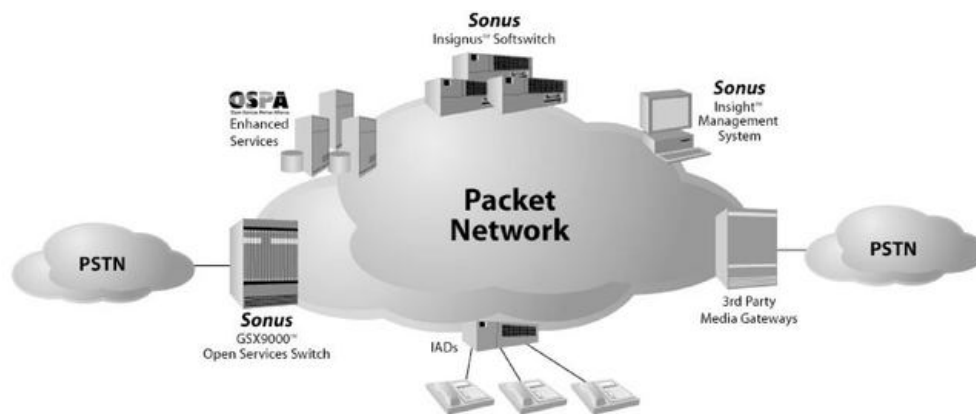
**Simple and rapid installation, deployment and support.** Infrastructure solutions must be easy to install, deploy, configure and manage. These attributes will enable rapid growth and effective management of dynamic and complex service provider networks.

### The Sonus Solution

We develop, market and sell a comprehensive suite of voice infrastructure products purpose-built for the deployment and management of voice and data services over carrier packet networks. The Sonus solution consists of the following carrier-class products:

- GSX9000 Open Services Switch;
- Insignus Softswitch; and
- Sonus Insight Management System.

These products are designed to offer high reliability, toll-quality voice, improved economics, interoperability, rapid deployment and an open architecture enabling the design and implementation of new services and applications. Our solution has been specifically designed to meet the requirements of the new public network. As shown in the following diagram, our products unite the voice and data networks.



**Carrier-class performance.** Our products are designed to offer the highest levels of quality, reliability and interoperability, including:

- full redundancy, enabling 99.999% availability;
- voice quality equal or superior to today's circuit-switched network;
- system hardware designed for Network Equipment Building Standards, or NEBS Level 3, compliance;
- network monitoring and provisioning designed for Operations System Modifications for the Integration of Network Elements, or OSMINE, compliance;
- a complete set of service features, addressing those found in the existing voice network and extending them to offer greater flexibility; and
- sophisticated network management and configuration capabilities.

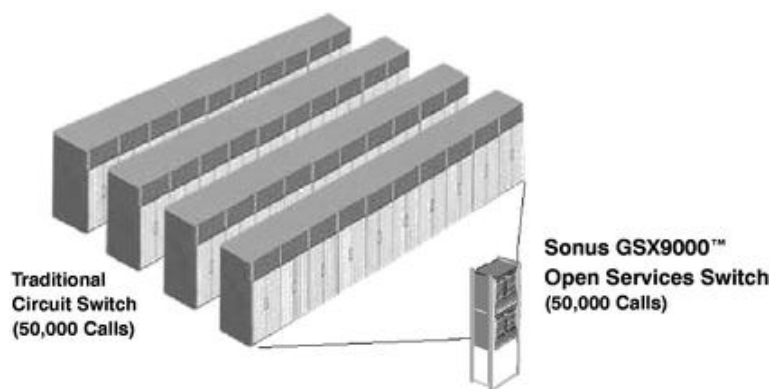
**Compatibility with industry standards and existing infrastructure.** Our products are designed to be compatible with all applicable voice and data networking standards and interfaces, including:

- SS7 and other telephone network signaling protocols, including international signaling variants, advanced services and simple call management and routing;
- IP, ATM, Ethernet and optical data networking standards;
- call management standards including SIP, SIP-T, MGCP, Megaco (H.248) and H.323 and others;
- voice coding standards such as G.711 and echo cancellation standard G.168; and
- all common interfaces, including T1, T3, E1 and optical interfaces.

The Sonus solution is designed to interface with legacy circuit-switching equipment, supporting the transparent flow of calls and other information between the circuit and packet networks. As a result, our products allow service providers to migrate to a new packet voice infrastructure, while preserving their significant legacy infrastructure investments.

**Cost effectiveness and high scalability.** The Sonus solution can be used to cost-effectively build packet-based switch configurations supporting a range from a few hundred calls to hundreds of thousands of simultaneous calls. In addition, the capital cost of our equipment is typically half that of traditional circuit-switched equipment. At the same time, our GSX9000 Open Services Switch offers unparalleled density, requires less than one-tenth of the space needed by typical circuit-switching implementations and requires significantly less power and cooling. This makes possible a significant reduction in expensive central office facilities cost and allows service providers to deploy our equipment in locations where traditional circuit switches are not even an option given the limited space and environmental services.

The GSX9000 Open Services Switch can create central office space savings as shown below.



**Open software architecture and flexible platform.** Our Open Services Architecture, or OSA, is based on a software-centric design and a flexible platform, allowing rapid development of new products and services. New services may be developed by us, by service providers or by any number of third parties including software developers and systems integrators. The OSA also facilitates the creation of services that were previously not possible on the circuit-switched network. In addition, we have partnered with a number of third-party application software developers in our Open Services Partner Alliance<sup>SM</sup>, or OSP, to stimulate the growth of new applications available for our platform.

**Ease of installation and deployment.** Our equipment and software can be installed and placed in service by our customers much more quickly than circuit-switching equipment. By offering comprehensive testing, configuration and management software, we expedite the deployment process as well as the ongoing management and operation of our products. We believe that typical installations of our solution require just weeks of time from product arrival to final testing, thereby reducing the cost of deployment and speeding the time to market for new services.

### The Sonus Strategy

Our objective is to capitalize on our early technology and market lead and build the premier franchise in carrier voice infrastructure solutions for wireline and wireless carriers. The following are key elements of our strategy:

**Leverage our technology leadership to achieve key service provider design wins.** As the first company to provide voice infrastructure products for the new public network, we have achieved key design wins with market-leading service providers as they develop the architecture for their new voice networks. We expect service providers to select vendors that provide leading technology and the ability to maintain that technology leadership. Our equipment is an integral part of the network architecture and achieving design wins will enable us to expand our business as these networks are deployed. We have been awarded projects by major service providers, including Alestra (Mexico), America Online, AT&T, AT&T Wireless Services/Cingular, BellSouth Corporation, China Netcom, Fusion Communications (Japan), Global Crossing, IDT Corp., Interoute, Level 3 Communications, NetVision (Israel), NTT Communications, Qwest Communications, SOFTBANK BB, Time Warner Telecom, T-Systems International (a division of Deutsche Telekom Group), Verizon Communications, Volo Communications, WebEx Communications and XO Communications. Furthermore, by working closely with our customers as they deploy these networks, we gain valuable knowledge regarding their requirements, positioning us to continue to develop product enhancements and extensions that address evolving service provider needs.



**Continue to extend our technology platform from the core of the network to the access edge.** Our robust and sophisticated technology platform has been designed to operate at the heart of the largest networks in the world. From this fundamental position in the trunking infrastructure, we are extending our reach by moving outward to the access segments of the network. We support multiple carrier applications in a single platform. These applications include long distance/international calling, tandem switching, network border switching, Internet call diversion, business PBX access, residential access, H.323 termination, direct voice over broadband and enhanced services. This approach will allow our customers to design and execute a coordinated migration and expansion strategy as they build entirely new networks or transition from their legacy circuit-switched infrastructure. We have deployed our ASX Access Server to provide full-featured access functionality with Qwest Communications, AT&T and NTT Communications.

**Expand and broaden our customer base by targeting specific market segments, such as wireless operators.** We plan to leverage our early success to penetrate new customer segments. We believe new and incumbent service providers will build out their packet voice infrastructures at different rates. The next-generation service providers, who are relatively unencumbered by legacy equipment, have been among the initial purchasers of our equipment and software. Other newer entrants, including wireless operators, cable operators and Internet service providers, or ISPs, have also been early adopters of our products. Incumbents, including interexchange carriers, or IXCs, Regional Bell Operating Companies, or RBOCs, and international PTTs are also adopting packet voice technologies over time.

**Expand our solutions to address emerging IP-based markets, such as network border switching.** Carriers are increasingly finding that they need to interconnect with other carriers using IP rather than circuit-switched technology. To address this emerging need, we deliver a comprehensive network border switching solution that offers control over interconnection, while reducing cost and complexity. Our network border switching solution supports a full range of IP signaling protocols including SIP, SIP-T and H.323 as well as fax interworking and codecs standards. We have deployed our network border switching solution in several large service provider networks.

**Expand our global sales, marketing, support and distribution capabilities.** Becoming the primary supplier of carrier packet voice infrastructure solutions will require a strong worldwide presence. We are broadening our sales, marketing, support and distribution capabilities to address this need. We have established offices throughout the United States, in China, India, Japan, Malaysia, Singapore, Germany and France, and in the United Kingdom. In addition, we have augmented our global direct sales effort with international distribution partners, including China Putian, Marconi, Motorola and Samsung. As a carrier-class solution provider, we are making a significant investment in professional services and customer support.

**Grow our base of software applications and development partners.** We have established and promote a partner program, the Open Services Partner Alliance, or OSPA, which brings together a broad range of development partners to provide our customers with a variety of advanced services, application options and interoperability testing. Our OSPA partners include application developers such as Pactolus Communication Software, Sylanro Systems, IP Unity, BayPackets, BroadSoft, and infrastructure suppliers such as Juniper Networks and Riverstone Networks.

**Actively contribute to the standards definition and adoption process.** To advance our technology and market leadership, we will continue to actively lead and contribute to standards bodies such as the International Packet Communications Consortium, the Internet Engineering Task Force and the International Telecommunications Union. The definition of standards for carrier packet voice infrastructure is in an early stage and we intend to drive these standards to meet the requirements for an open, accessible, scalable and powerful new public network infrastructure.

**Pursue strategic acquisitions and alliances.** We intend to expand our products and services through selected acquisitions and alliances. These may include acquisitions of complementary products, technologies and businesses that further enhance our technology leadership or product breadth. We also believe that teaming with companies providing complementary products or services will enable us to bring greater value to our customers and extend our lead over potential competitors.

## Sonus Products

### GSX9000 Open Services Switch

The Sonus GSX9000 Open Services Switch enables voice traffic to be transported over packet networks. Its carrier-class hardware, which is NEBS Level 3 compliant and designed to provide 99.999% availability with no single point of failure, offers optional full redundancy and full hot-swap capability. It is powered from -48VDC sources standard in central offices and attaches to the central office timing network. The basic building block of a GSX9000 is a shelf. Each shelf is 28" high, mounts in a standard 19" or 23" rack and provides 16 slots for server and adapter modules. The first two slots are reserved for management modules, while the other 14 slots may be used for any mix of other module types. It supports the following interfaces:

- T1;
- T3;
- E1;
- OC3;
- 100BaseT;
- 1000BaseT; and
- OC12c/STM-4.



The GSX9000 is designed to deliver voice quality equal, or superior, to that of the legacy circuit-switched public network. It is designed to support the multiple encoding schemes used in circuit switches such as G.711 and delivers a number of other voice compression algorithms. It also is designed to provide world-class echo cancellation, conforming to the latest G.168 standard, on every circuit port. It automatically disables echo cancellation when it detects a modem signal. The GSX9000 is also designed to minimize delay, further enhancing perceived voice quality. The GSX9000 scales to the very large configurations required by major service providers. A single GSX9000 shelf can support up to 22,000 simultaneous calls. A single GSX9000, consisting of multiple shelves, can support 100,000 or more simultaneous calls. The GSX9000 is designed to operate with our Insignus Softswitch and with softswitches and network products offered by other vendors.

### Insignus Softswitch

Softswitches provide the network intelligence in next-generation networks, including call control, signaling, core network routing and a management foundation. Our Insignus Softswitch is based on a modular architecture that is designed for high performance and scalability, as well as interoperability with third-party gateways, devices and services. The Insignus Softswitch includes the following functionality:

- call control and signaling;
- service selection and routing;
- line-side endpoint control and services for both residential and enterprise markets;

- local calling features and regulatory requirements such as emergency services routing;
- a gateway between existing SS7/C7 signaling networks and the packet network; and
- network border switching.

The Insignus Softswitch functions can be deployed on the same or separate platforms, and can be configured in either a centralized or distributed manner, based on a service provider's network requirements. This high level of flexibility allows service providers precisely to allocate functionality and processing performance, avoiding the cost of unused resources. Service providers can also deploy additional Insignus modules as their requirements change. For instance, a service provider deploying the functions for a long distance application might require only service selection routing and SS7 connectivity. As the service provider moves into the local market, it can add line-side endpoint control to deliver access services on the same platform. The Insignus Softswitch can scale from the smallest single point of presence to the largest global networks.

The ASX Access Server is an integral module in the Insignus Softswitch, providing full-featured access functionality that extends our architecture to the network edge. The ASX is a flexible call agent that handles the call setup and feature signaling for access solutions. The ASX supports packet connectivity to a variety of Integrated Access Devices (IADs), gateways, next-generation Digital Loop Carriers (DL-Cs) and IP endpoints. The ASX enables a multitude of applications including residential access, cable access and business services such as Centrex and VPNs. The ASX also enables new features available only on packet-based networks such as unified messaging, multi-media conferencing and desktop integration capabilities.

The Insignus Softswitch supports industry-standard protocols such as SIP, H.323 and MGCP, using them for interaction with third-party products, for communication among components of the Open Services Architecture and for communications between carrier networks. The Insignus Softswitch supports a large number of international SS7/C7 variants, for both call signaling and interaction with legacy intelligent network, or IN, and advanced intelligent network, or AIN, services.

The Insignus Softswitch is deployed on industry-standard, NEBS-compliant computing platforms. The Insignus Softswitch supports redundancy, providing carrier-class reliability. In fully redundant configurations, there is no loss of active calls during switchover for any hardware and software component.

We believe that in addition to traditional voice services, our Insignus Softswitch will enable service providers to offer differentiated, value-added features and services developed by us, by application software developers, system integrators or service providers themselves, including:

- one-number/follow-me services, which route a subscriber's phone services to any location;
- unified messaging that integrates telephone services, email and Web applications, and allows subscribers to have a unified mailbox for email, voicemail and message filtering;
- conference calling across the Internet and multimedia conferencing;
- Prepaid and postpaid calling cards;
- Internet-enabled call centers;
- IP centrex and hosted PBX services;
- Voice VPNs; and
- Internet content delivered with voice.

## Sonus Insight Management System

Sonus Insight is a complete, web-based management system designed to simplify the operation of carrier-class packet voice networks. Sonus Insight includes the Element Management System, or EMS, and the DataStream Integrator, or DSI, the Subscriber Management System, or SMS, the Network Traffic Manager, or NTM, and the Sonus Insight Developer's Kit, that together provide comprehensive configuration, provisioning, security, alarm reporting, performance data and billing mediation capabilities. Sonus Insight seamlessly integrates with service providers' existing back-office systems, and offers many tools that enhance and consolidate key management functions, allowing service providers to streamline many of today's labor-intensive processes. Sonus Insight scales to support hundreds of switches and concurrent users, and is based on industry standards and protocols to facilitate management from any location worldwide.

## Customer Support and Professional Services

We believe our comprehensive SonusCARE technical customer support and professional services capabilities are an important element of our solution for customers. SonusCARE covers the full network lifecycle: planning; design; installation; and operations. We help our customers create or revise their business plans and design their networks and also provide the following:

- turnkey network installation services;
- system integration and testing;
- 24-hour technical support; and
- educational services to customer personnel on the installation, operation and maintenance of our equipment.

We have technical assistance centers in Chelmsford, Massachusetts and in the United Kingdom and are establishing a new technical assistance center in Japan. The technical assistance centers provide customers with around-the-clock technical support, as well as periodic updates to our software and product documentation. In addition, we have a global service alliance with ADC to support Sonus VoIP deployments. We offer our customers a variety of service plans.

A key differentiator of our support activities is our professional services group, many members of which hold advanced technical degrees in electrical engineering or related disciplines. We offer a broad range of professional services, including sophisticated network deployment, assistance with logistics and project management support. We also maintain a customer support laboratory in which customers can test the utility of our products for their specific applications and in which they can gain an understanding of the applications enabled by the converged network. Our approach to professional services is designed to ensure that our products are integrated into our customers' networks to meet their specific needs and that these customers realize the maximum value from their networking technology investments. As of December 31, 2004, our customer support and professional services organization consisted of 138 employees.

## Customers

Our target customer base includes long distance carriers, local exchange carriers, ISPs, wireless operators, cable operators, international telephone companies and carriers that provide services to other carriers. We have shipped products to customers including: Alestra (Mexico), America Online, AT&T, AT&T Wireless Services/Cingular, BellSouth Corporation, China Netcom, Epana Networks, Fusion Communications (Japan), Global Crossing, IDT Corp., Interoute, Level 3 Communications, NetVision (Israel), NTT Communications, Nuvox Communications, Qwest Communications, SOFTBANK BB, Time Warner Telecom, T-Systems International (a division of Deutsche Telekom

Group), USA Datanet, Verizon Communications, Volo Communications, WebEx Communications and XO Communications. For the year ended December 31, 2004, Qwest Communications and Global Crossing contributed 17% and 12% of our revenues. For the year ended December 31, 2003, Qwest Communications, Verizon Global Networks, AT&T Wireless Services and Global Crossing contributed 18%, 15%, 13% and 11% of our revenues. For the year ended December 31, 2002, Qwest Communications contributed 42% of our revenues. As a result of the current challenging business environment in the telecommunications industry, many service providers, including some of our customers, have experienced financial difficulties, and some are in the process of restructuring their businesses or have filed or recently emerged from bankruptcy; while others are in the process of being acquired or making significant acquisitions.

### **Sales and Marketing**

We sell our products principally through a direct sales force and, in some markets, through or with the assistance of distributors and resellers, such as AsiaInfo Holdings, Inc. (China), China Putian (China), Commuture (Japan), Compta (Portugal), IBIL (Malaysia), Marconi (worldwide), Nissho Electronics Corporation (Japan), PT Abhimata Citra Abadi (Indonesia), Samsung Corporation (Korea), Sumitomo Corporation (Japan), UpTechnology (China) and Welltech Computer Corporation (Taiwan). In February 2004, we established an original equipment manufacturer relationship with Motorola, Inc., whereby the GSX 9000 has been integrated with the Motorola SoftSwitch, creating a next generation switching platform for wireless carriers around the world. We intend to establish additional relationships with selected original equipment manufacturers and other marketing partners in order to serve particular markets or geographies and provide our customers with opportunities to purchase our products in combination with related services and products.

As of December 31, 2004, our sales and marketing organization consisted of 97 employees, of whom 19 were located in our corporate headquarters and 78 were located in sales and support offices in the United States and around the world.

### **Research and Development**

We believe that strong product development capabilities are essential to our strategy of enhancing our core technology, developing additional applications, incorporating that technology into new products and maintaining comprehensive product and service offerings. Our research and development process is driven by the availability of new technology, market data and customer feedback. We have invested significant time and resources in creating a structured process for undertaking all product development projects. In 2004, we delivered product enhancements in Class 5 services, voice over broadband, network border switching and network management. We are developing and plan to introduce new products to address market and customer needs. Our research and development expenses were \$36.2 million, \$32.2 million and \$44.6 million for the years ended December 31, 2004, 2003 and 2002.

We have assembled a team of highly skilled engineers with significant telecommunications and networking industry experience. Our engineers have experience in, and have been drawn from, leading computer data networking, telecommunications and multimedia companies. As of December 31, 2004, we had 247 employees responsible for research and development, of which 225 were software and quality assurance engineers and 22 were hardware engineers. Our engineering effort is focused on new applications and network access features, new network interfaces, improved scalability, interoperability, quality, reliability and next generation technologies. We maintain research and development offices in Massachusetts, New Jersey, Texas and Virginia in the United States and an office in the United Kingdom. We have recently established a technology development center in Bangalore, India. We have made, and intend to continue to make, a substantial investment in research and development.

## Competition

The market for carrier packet voice infrastructure solutions is intensely competitive, subject to rapid technological change and significantly affected by new product introductions and other market activities of industry participants. We expect competition to persist and intensify in the future. Our primary sources of competition include vendors of networking and telecommunications equipment, such as Cisco Systems, Lucent Technologies, Nortel Networks and Siemens. Some of our competitors have significantly greater financial resources than we do and are able to devote greater resources to the development, promotion, sale and support of their products. In addition, these competitors have more extensive customer bases and broader customer relationships than we do, including relationships with our potential customers. Other smaller and mostly private companies are also focusing on similar market opportunities.

In order to compete effectively, we must deliver innovative products that:

- provide extremely high network reliability and voice quality;
- scale easily and efficiently;
- interoperate with existing network designs and other vendors' equipment;
- provide effective network management;
- are accompanied by comprehensive customer support and professional services; and
- provide a cost-effective and space-efficient solution for service providers.

## Intellectual Property

Our success and ability to compete are dependent on our ability to develop and maintain our technology and operate without infringing on the proprietary rights of others. We rely on a combination of patent, trademark, trade secret and copyright law and contractual restrictions to protect the proprietary aspects of our technology. These legal protections afford only limited protection for our technology. We presently hold five U.S. patents with expiration dates ranging from April 2016 through March 2019, and have eleven patent applications pending in the United States, two of which are provisional. In addition, we hold four foreign patents, each of which expires in June 2019, and have nine patent applications pending abroad. We cannot be certain that additional patents will be granted based on these pending applications. We seek to protect our intellectual property by:

- protecting our source code for our software, documentation and other written materials under trade secret and copyright laws;
- licensing our software pursuant to signed license agreements, which impose restrictions on others' ability to use our software; and
- seeking to limit disclosure of our intellectual property by requiring employees and consultants with access to our proprietary information to execute confidentiality agreements.

We have incorporated third-party licensed technology into our current products. From time to time, we may be required to license additional technology from third parties to develop new products or product enhancements. Third-party licenses may not be available or continue to be available to us on commercially reasonable terms. The inability to maintain or re-license any third-party licenses required in our current products, or to obtain any new third-party licenses to develop new products and product enhancements, could require us to obtain substitute technology of lower quality or performance standards or at greater cost, and delay or prevent us from making these products or enhancements, any of which could seriously harm the competitiveness of our products.

## **Manufacturing**

Currently, we outsource the manufacturing of our products. Our contract manufacturers provide comprehensive manufacturing services, including assembly of our products and procurement of materials on our behalf. We perform final test and assembly at our facilities to ensure that we meet our internal and external quality standards. We believe that outsourcing our manufacturing will enable us to conserve working capital, better adjust manufacturing volumes to meet changes in demand and more quickly deliver products. At present, we purchase products from our outside contract manufacturers on a purchase order basis. We may not be able to enter into long-term contracts with outside manufacturers on terms acceptable to us, if at all. If we do enter into long-term contracts with outside manufacturers and our purchase requirements change, we may have excess inventory, which would increase our costs. As of December 31, 2004, we had 19 employees responsible for manufacturing, purchasing, final testing and assembly.

## **Employees**

As of December 31, 2004, we had a total of 537 employees, including 247 in research and development, 97 in sales and marketing, 138 in customer support and professional services, 19 in manufacturing and 36 in finance and administration. Our employees are not represented by any collective bargaining unit. We believe our relations with our employees are good.

## **Additional Information**

We were incorporated on August 7, 1997 as a Delaware corporation. Our principal executive offices are located at 250 Apollo Drive, Chelmsford, Massachusetts 01824. Our telephone number is 978-614-8100 at our principal executive offices.

## ITEM 2. PROPERTIES.

In February 2004, we relocated our headquarters to a leased facility in Chelmsford, Massachusetts, consisting of 144,000 square feet under a sublease that expires in January 2007. We have additional facilities in Littleton, Massachusetts, consisting of 9,000 square feet under a sublease that expires in December 2008, in Richardson, Texas, consisting of 16,000 square feet under a lease expiring in October 2005 and in Bangalore, India, consisting of approximately 16,000 square feet under a lease expiring in January 2008. We also lease short-term office space in Colorado, New Jersey, Virginia, China, France, Japan, Malaysia, Singapore and the United Kingdom. We believe our existing facilities are adequate for our current needs and that suitable additional space will be available as needed.

## ITEM 3. LEGAL PROCEEDINGS.

In November 2001, a purchaser of our common stock filed a complaint in the federal district court for the Southern District of New York against us, two of our officers and the lead underwriters alleging violations of the federal securities laws in connection with our initial public offering (IPO) and seeking unspecified monetary damages. The purchaser seeks to represent a class of persons who purchased our common stock between the IPO on May 24, 2000 and December 6, 2000. An amended complaint was filed in April 2002. The amended complaint alleges that our registration statement contained false or misleading information or omitted to state material facts concerning the alleged receipt of undisclosed compensation by the underwriters and the existence of undisclosed arrangements between underwriters and certain purchasers to make additional purchases in the after market. The claims against us are asserted under Section 10(b) of the Securities Exchange Act of 1934 and Section 11 of the Securities Act of 1933 and against the individual defendants under Sections 11 and 15 of the Securities Act and Sections 10(b) and 20(a) of the Exchange Act. Other plaintiffs have filed substantially similar class action cases against approximately 300 other publicly traded companies and their IPO underwriters which, along with the actions against us, have been transferred to a single federal judge for purposes of coordinated case management. On July 15, 2002, we, together with the other issuers named as defendants in these coordinated proceedings, filed a collective motion to dismiss the consolidated amended complaints on various legal grounds common to all or most of the issuer defendants. The plaintiffs voluntarily dismissed the claims against many of the individual defendants, including our officers named in the complaint. On February 19, 2003, the court granted a portion of the motion to dismiss by dismissing the Section 10(b) claims against certain defendants including us, but denied the remainder of the motion as to the defendants. In June 2003, a special committee of our Board of Directors authorized us to enter into a proposed settlement with the plaintiffs on terms substantially consistent with the terms of a Memorandum of Understanding negotiated among representatives of the plaintiffs, the issuer defendants and the insurers for the issuer defendants. On February 15, 2005, the court preliminarily approved the terms of the proposed settlement contingent on modifications to the proposed settlement. The settlement is subject to final approval by the court. No hearing date has been scheduled for final approval. It remains uncertain whether and when the settlement will become final. We do not expect that the settlement would have a material impact on our business or financial results.

Beginning in July 2002, several purchasers of our common stock filed complaints in federal district court for the District of Massachusetts against us, certain officers and directors and a former officer under Sections 10(b) and 20(a) and Rule 10b-5 of the Securities Exchange Act of 1934 (Class Action Complaints). The purchasers seek to represent a class of persons who purchased our common stock between December 11, 2000 and January 16, 2002, and seek unspecified monetary damages. The Class Action Complaints were essentially identical and alleged that we made false and misleading statements about our products and business. On March 3, 2003, the plaintiffs filed a Consolidated Amended Complaint. On April 22, 2003, we filed a motion to dismiss the Consolidated Amended Complaint on various grounds. On May 11, 2004, the court held oral argument on the motion, at the conclusion of which the court denied our motion to dismiss. The plaintiffs filed a motion for class certification on



July 30, 2004, and we filed our opposition on September 10, 2004, to which the plaintiffs replied on September 30, 2004. On February 16, 2005, the court certified the class and appointed a class representative. On March 9, 2005, the court appointed the law firm of Moulton & Gans as lead counsel, and the court also ordered additional filings as to the adequacy of the class representative and has scheduled a further hearing on April 29, 2005. We believe the claims in the Consolidated Amended Complaint are without merit and that we have substantial legal and factual defenses, which we intend to pursue vigorously. There is no assurance we will prevail in defending these actions.

Beginning in February 2004, a number of purported shareholder class action complaints were filed in the United States District Court for the District of Massachusetts against us and certain of our current officers and directors. On June 28, 2004, the court consolidated the claims. On December 1, 2004, the lead plaintiff filed a consolidated amended complaint. The complaint asserts claims under the federal securities laws, specifically Sections 10(b) and 20(a) of the Securities Exchange Act of 1934 and Sections 11, 12(a), and 15 of the Securities Act of 1933, relating to our restatement of our financial results for 2001, 2002, and the first three quarters of 2003. Specifically, the complaint alleges that we issued a series of false or misleading statements to the market concerning our revenues, earnings, and financial condition. Plaintiffs contend that such statements caused our stock price to be artificially inflated. The complaint seeks unspecified damages on behalf of a purported class of purchasers of our common stock during the period from March 28, 2002, through March 26, 2004. On January 28, 2005, we filed a motion to dismiss the Section 10(b) and 12(a) claims and joined the motion to dismiss the Section 11 claim filed by the individual defendants. No hearing date for this motion has been scheduled. We believe that we have substantial legal and factual defenses to the claims, which we intend to pursue vigorously. There is no assurance we will prevail in defending these actions.

In February 2004, three purported shareholder derivative lawsuits were filed in the United States District Court for the District of Massachusetts against us and certain of our officers and directors, naming us as a nominal defendant. Also in February 2004, two-purported shareholder derivative lawsuits were filed in the business litigation session of the superior court of Suffolk County of Massachusetts against us and certain of our directors and officers, also naming us as a nominal defendant. The suits claim that certain of our officers and directors breached their fiduciary duties to our stockholders and to us. The complaints are derivative in nature and do not seek relief from us. However, we have entered into indemnification agreements in the ordinary course of business with certain of the defendant officers and directors and may be obligated throughout the pendency of these actions to advance payment of legal fees and costs incurred by the defendants pursuant to our obligations under the indemnification agreements or applicable Delaware law. On September 27, 2004, the state court granted our motion to dismiss. On October 26, 2004, the plaintiffs filed a notice appealing the state court's dismissal of the actions. In the federal actions, on June 28, 2004, the court consolidated and stayed the three actions. On October 12, 2004, the lead plaintiff filed a consolidated amended complaint. We believe that we have substantial legal and factual defenses to the federal claims and have filed a motion to dismiss based on the decision by the state court. No date for a hearing on the motion has been scheduled. There is no assurance we will prevail in defending these actions.

In December 2004, a purchaser of our common stock filed a complaint in the circuit court in Will County, Illinois, against us, one of our officers, and a former officer alleging misrepresentation and fraud in connection with the plaintiff's purchase of our stock. The Complaint seeks unspecified damages. We believe that we have substantial legal and factual defenses to these claims, which we intend to pursue vigorously. We filed a motion to dismiss the complaint. The hearing on the motion has been scheduled for April 26, 2005. There is no assurance we will prevail in defending this action.

In June 2004, we received a formal order of private investigation from the SEC. We are cooperating with the investigation. There can be no assurance as to the outcome of the SEC

investigation. We may incur substantial costs in connection with the investigation including fines and significant legal expenses.

We have been contacted by third parties, who claim that our products infringe on certain intellectual property of the third party. We evaluate these claims and accrue for royalties when the amounts are probable and reasonably estimable. While we believe that the amounts accrued for estimated royalties are adequate, any subsequent change in our estimates will be recorded at such time the change is probable and estimable.

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

The 2004 Annual Meeting of Shareholders of Sonus Networks, Inc. was held on December 9, 2004 at the Radisson Hotel Chelmsford, 10 Independence Drive in Chelmsford, Massachusetts 01824. Of the 246,771,304 shares outstanding as of October 15, 2004, the record date, 234,318,770 shares (95%) were present or represented by proxy at the meeting. The only proposal before the Annual Meeting was the election of directors.

The table below presents the results of the election to our board of directors:

Nominee	Votes For	Votes Withheld
Paul J. Ferri	230,878,569	3,440,201
Rubin Gruber	231,140,651	3,178,119
H. Brian Thompson	232,491,708	1,827,062

The terms for board members Hassan M. Ahmed, John P. Cunningham and Paul J. Severino expire in 2005; and the terms for Edward T. Anderson and Albert A. Notini expire in 2006.

#### EXECUTIVE OFFICERS OF THE REGISTRANT

The following table sets forth our executive officers and their respective ages and positions as of January 31, 2005:

Name	Age	Position
Hassan M. Ahmed	47	Chief Executive Officer and Chairman of the Board of Directors
Albert A. Notini	47	President, Chief Operating Officer and Director
Ellen B. Richstone	53	Chief Financial Officer
Steve Edwards	46	Vice President and Chief Marketing Officer
Bradley T. Miller	43	Vice President of Finance, Corporate Controller and Chief Accounting Officer
Gary A. Rogers	49	Vice President of Worldwide Sales

**Hassan M. Ahmed** has been our Chief Executive Officer and a member of our board of directors since November 1998 and Chairman of our board of directors since April 2004. From November 1998 to April 2004, he was also our President. From July 1998 to November 1998, Mr. Ahmed was Executive Vice President and General Manager of the Core Switching Division of Ascend Communications, Inc., a provider of wide area network switches and access data networking equipment, and from July 1997 until July 1998 was a Vice President and General Manager of the Core Switching Division. From June 1995 to July 1997, Mr. Ahmed was Chief Technology Officer and Vice President of Engineering for Cascade Communications Corp., a provider of wide area network switches. From 1993 until June 1995, Mr. Ahmed was a founder and President of WaveAccess, Inc., a supplier of wireless communications. Prior to that, he was an Associate Professor at Boston University, Engineering

Manager at Analog Devices, a chip manufacturer, and director of VSLI Systems at Motorola Codex, a supplier of communications equipment. Mr. Ahmed holds a B.S. and an M.S. in engineering from Carleton University and a Ph.D. in engineering from Stanford University.

**Albert A. Notini** has been our President and Chief Operating Officer since April 2004 and a director since March 2003. Until becoming President and Chief Operating Officer in April 2004, Mr. Notini also served as chairman of the board's audit committee. Mr. Notini served as a director and the Chief Financial Officer of Manufacturers' Services Limited, a global electronics and supply chain services company, from October 2000 to March 2004. Manufacturers Services Limited was acquired by Celestica Inc. in March 2004. He joined Manufacturers' Services Limited in May 2000 as Executive Vice President, Business Development and General Counsel and served in that capacity until October 2000. From January 1999 to June 1999, Mr. Notini was the Executive Vice President, Corporate Development and Administration and General Counsel of Wang Global, a worldwide provider of network services. Wang Global was acquired by Getronics NV in June 1999 and Mr. Notini served as Executive Vice President of Getronics until February 2000. He joined Wang Global in February 1994 as Senior Vice President and General Counsel. Prior to joining Wang, he was a Senior Partner at Hale and Dorr LLP, a law firm now known as Wilmer Cutler Pickering Hale and Dorr LLP. Mr. Notini has a B.A. from Boston College, an M.A. from Boston University and a J.D. from Boston College Law School. Mr. Notini also serves as a director of ePresence, Inc.

**Ellen B. Richstone** joined as our Chief Financial Officer in January 2005. From December 2002 to January 2005, Ms. Richstone was President and Chief Executive Officer of Entrepreneurial Resources Group, a professional services firm that provides operational and financial services. From 1998 to November 2002, Ms. Richstone was the Senior Vice President, Finance & Administration and Chief Financial Officer of Brooks Automation, Inc., a worldwide manufacturer of automation hardware and software for the semiconductor industry. Prior to that, she has also served as the CFO of several other technology corporations, including Augat, Inc., Rohr Aerospace, and Honeywell Bull. Additionally, Ms. Richstone has held executive positions with Data General Corporation and Polaroid Corporation. Ms. Richstone holds a bachelor's degree from Scripps College and a master's degree of international affairs and a master's degree of law and diplomacy with a specialty in international business law from the Fletcher School of Law and Diplomacy at Tufts University. She also holds an advanced professional certificate in finance from the New York University's Stern School of Business. She serves on the board of directors of American Power Conversion Corp and also on its audit committee as the financial expert.

**Steve Edwards** has been our Vice President and Chief Marketing Officer since July 2004. From 2001 to 2003, Mr. Edwards was the Vice President of Indirect Sales and Strategic Partnerships at AT&T, a global communications company. From 1998 to 2001, Mr. Edwards held executive positions with Concert, a global joint venture company, including Chief Operating Officer for Global Services and Vice President of Service Delivery. In addition, Mr. Edwards held various positions in engineering, product development and product marketing at British Telecommunications (BT) and was the President of BT Visual Images, a videoconferencing start-up, through its IPO in 1997. Mr. Edwards holds a bachelors degree in electrical and computer systems engineering from Loughborough University of Technology (UK).

**Bradley T. Miller** has been our Vice President of Finance, Corporate Controller and Chief Accounting Officer since May 2004. From March 2000 through May 2004, Mr. Miller was with Sapient Corporation, an information technology and business consulting firm. Mr. Miller joined Sapient in March 2000 as Corporate Controller, and was appointed Vice President in August 2001 and Chief Accounting Officer in November 2002. From September 1999 until March 2000, Mr. Miller served as Vice President and Corporate Controller of JuniorNet Corporation, an Internet content provider, and from August 1996 to September 1999 was Director of Financial Reporting of Wang Global, a worldwide provider of network services. Mr. Miller previously was a member of the audit practice with Coopers &

Lybrand where he earned his C.P.A. license. Mr. Miller has a B.A. from the College of William & Mary, and an M.B.A. from the University of New Hampshire.

**Gary A. Rogers** has been our Vice President of Worldwide Sales since March 1999. From March 1999 to December 2000, Mr. Rogers was also our Vice President of Marketing. From February 1997 to March 1999, Mr. Rogers was Senior Vice President of Worldwide Sales and Operations at Security Dynamics, Inc., now RSA Security, Inc., a supplier of network security products. Previously, he served at Bay Networks, Inc., as Vice President of International Sales from July 1996 to February 1997 and as Vice President of Europe, Middle East and Africa from 1994 until July 1996. Prior to that, he held sales and marketing positions with International Business Machines Corporation. Mr. Rogers holds a B.A. in mathematics from Dartmouth College and an M.B.A. from the University of Chicago.

PART II

**ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES.**

Our common stock is quoted on the Nasdaq National Market under the symbol "SONS." All companies listed on the Nasdaq National Market are required to comply with certain continued listing standards.

The following table sets forth, for the time periods indicated, the high and low sales prices of our common stock as reported on the Nasdaq National Market.

	<u>High</u>	<u>Low</u>
<b>Fiscal 2004:</b>		
First quarter	\$ 10.00	\$ 3.65
Second quarter	5.64	3.45
Third quarter	6.36	2.94
Fourth quarter	7.02	4.70
<b>Fiscal 2003:</b>		
First quarter	\$ 2.37	\$ 1.00
Second quarter	5.53	2.10
Third quarter	8.74	4.85
Fourth quarter	9.80	6.82

We have never declared or paid cash dividends and have no present intention to pay cash dividends in the foreseeable future. At January 31, 2005, there were approximately 700 holders of record of our common stock.

## ITEM 6. SELECTED FINANCIAL DATA

The following selected consolidated financial data of Sonus should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and notes to those statements included elsewhere in this report.

	Year ended December 31,				
	2004	2003	2002	2001	2000
	(in thousands, except per share data)				
<b>Consolidated Statement of Operations Data:</b>					
Revenues	\$ 170,738	\$ 93,210	\$ 93,917	\$ 128,800	\$ 51,770
Cost of revenues(1)	50,567	37,909	51,576	62,778	27,848
Gross profit (loss)	120,171	55,301	42,341	66,022	23,922
<b>Operating expenses:</b>					
Research and development(1)	36,174	32,190	44,591	63,896	26,430
Sales and marketing(1)	34,969	23,169	27,786	40,876	21,569
General and administrative(1)	24,595	10,475	5,248	12,827	5,477
Stock-based compensation	671	3,418	16,871	74,132	26,729
Amortization of goodwill and purchased intangible assets	2,402	2,408	4,229	70,551	—
Write-off of goodwill and purchased intangible assets	—	—	10,950	392,387	—
Restructuring charges, net	—	—	7,739	7,321	—
In-process research and development	—	—	—	44,600	—
Total operating expenses	98,811	71,660	117,414	706,590	80,205
Income (loss) from operations	21,360	(16,359)	(75,073)	(640,568)	(56,283)
Interest income, net	3,804	1,525	1,318	4,949	6,245
Income (loss) before income taxes	25,164	(14,834)	(73,755)	(635,619)	(50,038)
Provision for income taxes	687	302	86	—	—
Net income (loss)	24,477	(15,136)	(73,841)	(635,619)	(50,038)
Net income (loss) applicable to common stockholders	\$ 24,477	\$ (15,136)	\$ (73,841)	\$ (635,619)	\$ (50,038)
<b>Net income (loss) per share (2):</b>					
Basic	\$ 0.10	\$ (0.07)	\$ (0.39)	\$ (3.68)	\$ (0.52)
Diluted	\$ 0.10	\$ (0.07)	\$ (0.39)	\$ (3.68)	\$ (0.52)
Pro forma basic and diluted	—	—	—	—	\$ (0.37)
<b>Shares used in computing net income (loss) per share (2):</b>					
Basic	245,830	220,696	191,008	172,905	95,877
Diluted	253,816	220,696	191,008	172,905	95,877
Pro forma basic and diluted	—	—	—	—	135,057

	December 31,				
	2004	2003	2002	2001	2000
	(in thousands)				
<b>Consolidated Balance Sheet Data:</b>					
Cash, cash equivalents, marketable securities and long-term investments	\$ 313,105	\$ 305,392	\$ 118,138	\$ 125,013	\$ 142,065
Working capital	271,584	260,962	60,946	81,895	135,597
Total assets	393,828	358,424	153,517	216,206	194,835
Long-term deferred revenue, net of current portion	25,960	24,302	8,024	3,942	—
Long-term liabilities, net of current portion	613	829	3,293	1,289	—
Convertible subordinated note	10,000	10,000	10,000	10,000	—
Total stockholders' equity	265,040	234,435	56,421	110,566	150,706

(1) Excludes non-cash, stock-based compensation expense as follows:

	December 31,				
	2004	2003	2002	2001	2000
	(in thousands)				
Cost of revenues	\$ 18	\$ 45	\$ 235	\$ 1,304	\$ 404
Research and development	240	1,180	8,930	42,764	11,428
Sales and marketing	311	1,542	4,941	17,968	12,051
General and administrative	102	651	2,765	12,096	2,846
	\$ 671	\$ 3,418	\$ 16,871	\$ 74,132	\$ 26,729

(2) See Note 1(q) to our consolidated financial statements for an explanation of the method of calculation. Pro forma per share calculation reflects the conversion of all outstanding shares of redeemable convertible preferred stock into shares of common stock which occurred upon the closing of our IPO in May 2000, as if the conversion occurred at the date of original issuance.

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

*The following discussion should be read in conjunction with our consolidated financial statements and notes to those statements and other financial information appearing elsewhere in this report. The following discussion contains forward looking information that involves risks and uncertainties. Our actual results could differ materially from those anticipated in the forward looking statements as a result of a number of factors, including the risks discussed in "Risk Factors" and elsewhere in this report.*

### Overview

We are a leading supplier of packet voice infrastructure solutions for wireline and wireless service providers. Our products are a new generation of carrier class switching equipment and software that enable voice services to be delivered over packet based networks.

We began shipping product to customers during the fourth quarter of fiscal 1999 and recorded our first revenues of \$51.8 million in fiscal 2000 and revenues of \$128.8 million in fiscal 2001, \$93.9 million in fiscal 2002, \$93.2 million in fiscal 2003 and \$170.7 million in fiscal 2004. Significant declines in capital spending by telecommunications service providers, and financial difficulties, including in some cases bankruptcies, experienced by certain emerging service providers, including some of our customers, contributed to the reduction in our revenues in 2002 relative to the prior year. In response to the unfavorable economic conditions, commencing in the third quarter of fiscal 2001 and continuing through fiscal 2002, we implemented restructuring plans designed to reduce expenses and align our cost structure with our revised business outlook. The restructuring plans included worldwide workforce reductions, consolidation of excess facilities and the write-off of excess inventory and purchase commitments. In 2003, the challenging business environment in the telecommunications industry continued to affect the spending by service providers for products such as those we offer.

In 2004, there was a trend towards increased interest and activity in the market for packet-based voice infrastructure products. While it remains uncertain as to the speed and extent of the adoption of carrier packet voice infrastructure products by large carriers, we believe that over time the market opportunity for packet voice solutions is substantial. For fiscal 2004, revenues were \$170.7 million compared to \$93.2 million in fiscal 2003, reflecting continuing improvements in the market for packet-based voice infrastructure products, as well as increased service revenues resulting from a growing installed base of our products.

For the year ended December 31, 2004, Qwest Communications (Qwest) and Global Crossing contributed 17% and 12% of our revenues. For the year ended December 31, 2003, Qwest, Verizon Global Networks, AT&T Wireless Services/Cingular and Global Crossing contributed 18%, 15%, 13% and 11% of our revenues. For the year ended December 31, 2002, Qwest contributed 42% of our revenues. For the years ended December 31, 2004, 2003 and 2002, 10% customer concentrations made up 29%, 57% and 42% of revenue. In 2003, we had a lesser concentration of customers than in 2002 due to the deferral of revenue on product shipped to one customer during 2001, which was recognized as revenues in 2002. The related deferred revenue was recognized as revenue in 2002 upon the delivery of a specified software release in the second quarter of 2002.

We sell our products primarily through a direct sales force and, in some markets, through or with the assistance of resellers and distributors. Customers' decisions to purchase our products to deploy in commercial networks involve a significant commitment of resources and a lengthy evaluation, testing and product qualification process. We believe our revenues and results of operations may vary significantly and unexpectedly from quarter to quarter as a result of long sales cycles, our expectation that customers will tend to sporadically place large orders with short lead times and the application of complex revenue recognition rules to certain transactions, which may result in customer shipments and

orders from multiple quarters being recognized as revenue in one quarter. We expect to recognize revenues from a limited number of customers for the foreseeable future.

Since our inception through December 31, 2003, we incurred significant losses. As of December 31, 2004, we had an accumulated deficit of \$784.1 million. Although we achieved profitability on an annual basis and for each quarter in fiscal year 2004, we may incur additional losses in future quarters and years. We have a lengthy sales cycle for our products and, accordingly, we expect to incur sales and other expenses before we realize the related revenues. We expect to continue to incur significant sales and marketing, research and development and general and administrative expenses, many of which are fixed prior to the beginning of any particular fiscal period and, as a result, we will need to generate significant revenues to maintain profitability.

### **Critical Accounting Policies and Estimates**

**Revenue Recognition.** We recognize revenues from product sales when persuasive evidence of an arrangement exists, delivery has occurred, the sales price is fixed and determinable, and collectibility of the related receivable is probable. When we have future obligations, including a requirement to deliver additional elements which are essential to the functionality of the delivered elements or for which vendor specific objective evidence of fair value (VSOE) does not exist or customer acceptance is required, we defer revenue recognition and related costs until those obligations are satisfied. The ordering patterns and sales lead times associated with customer orders may vary significantly from period to period.

Many of our sales are generated from complex contractual arrangements, which require significant revenue recognition judgments, particularly in the case of multiple element arrangements. When a sale involves multiple elements, such as products, maintenance or professional services, we allocate the entire sales price to each respective element based on VSOE or using the residual method when VSOE cannot be established for a single delivered element in the arrangement. We then recognize revenues on each element in accordance with our policies for product or service revenue recognition. We determine VSOE based upon the price charged when the same element is sold separately. If we cannot establish VSOE for each undelivered element, we defer revenue recognition on the entire arrangement until the earlier of the establishment of VSOE or delivery of the undelivered element, which may result in significant variation in our revenues and operating results from quarter to quarter.

In addition, if an arrangement with a customer includes a specified upgrade right for which VSOE cannot be established, we defer all revenue related to the arrangement until the earlier of the delivery of the specified upgrade or the establishment of VSOE for the specified upgrade. We have concluded that a specified upgrade exists if it is included in the customer contract or otherwise becomes part of the arrangement with the customer. We have concluded that communications with customers in the normal course of business regarding customer feature requests and our product plans do not create specified upgrade rights.

Maintenance and support services are recognized ratably over the life of the maintenance and support service period, which typically is one year when the services are sold separately and up to five years when the fees for the services are bundled with the product fees as part of a multiple element arrangement, following recognition of the related product revenue. Maintenance and support services include telephone support and unspecified rights to product upgrades and enhancements. Maintenance and support VSOE represents a consistent percentage of the sales prices charged to customers. The application of judgment could affect the continued determination of maintenance and support VSOE and our ability to recognize revenue using the residual method.

Installation service revenues are typically recognized at the time of the related product revenue recognition as installation is typically complete by such time. Professional services are typically recognized as the services are performed.



We sell the majority of our products directly to end-users. For products sold through resellers and distributors we recognize revenues on a sell-through method utilizing information provided to us from our resellers and distributors.

We record deferred revenue for product shipped to customers and related services where amounts are billed pursuant to a contractual right and collection is probable, or collected, in the ordinary course of business if the revenue recognition criteria have not been satisfied. Deferred revenues include customer deposits and amounts associated with maintenance contracts. Deferred revenues not expected to be recognized as revenue within one year of the balance sheet date are classified as long-term deferred revenues.

We defer recognition of incremental direct costs, such as cost of goods, royalties, commissions and third-party installation costs, until satisfaction of the criteria for recognition of the related revenue.

**Loss Contingencies and Reserves.** We are subject to ongoing business risks arising in the ordinary course of business that affect the estimation process of the carrying value of assets, the recording of liabilities and the possibility of various loss contingencies. Under SFAS No. 5, *Accounting for Contingencies*, an estimated loss contingency is accrued when it is probable that a liability has been incurred or an asset has been impaired and the amount of loss can be reasonably estimated. We regularly evaluate current information available to determine whether such amounts should be adjusted and record charges in estimates in the period they become known. Based on our analysis, we have established the following allowance, reserves and accruals:

**Allowance for Doubtful Accounts.** We establish billing terms at the time we negotiate purchase agreements with our customers. We continually monitor for timely payments and assess any collection issues. The allowance for doubtful accounts is based on our detailed assessment of the collectibility of specific customer accounts. While we believe that our allowance for doubtful accounts is adequate and that the judgment applied is appropriate, if there is a deterioration of a customer's creditworthiness or actual defaults are higher than our historical experience, the actual results could differ from these estimates. While such credit losses have historically been within our expectations and the allowances we established, we can provide no assurances that we will continue to experience the same credit loss rates that we have in the past. If the financial condition of our customers were to deteriorate, resulting in an impairment of their ability to make payment, additional allowances may be required. We defer revenue recognition for customers for which we believe collection is less than probable. Our failure to accurately estimate the losses for doubtful accounts and ensure that payments are received on a timely basis could have a material adverse effect on our business, financial condition and results of operations.

**Inventory Reserves.** Inventory purchases and commitments are based upon estimated future demand for our products. We value inventory at the lower of cost or market and write down inventories to net realizable value and provide inventory reserves based on excess and obsolete inventory determined primarily by future demand forecasts and returns of defective product, and record changes to such reserves through adjustments to cost of revenues. We assess such demand forecasts and return history on at least a quarterly basis. If we record a charge to reduce inventory to its estimated net realizable value, we do not increase its carrying value due to subsequent changes in demand forecasts or product repairs. Accordingly, if inventory previously reserved for is subsequently sold, we may realize improved gross profit margins on those transactions in the period the related revenue is recognized. In fiscal 2004 and 2003 we realized a \$3.0 million and \$5.6 million benefit from the sale of inventory previously written down.

We also record a full inventory reserve for evaluation equipment at the time of shipment to our customers as a charge to sales and marketing expense as our experience with this type of inventory indicates it is probable that the inventory value will not be realizable. If these evaluation shipments

should convert to revenue, we record a benefit to sales and marketing expenses and record the full cost of revenues in the period of revenue recognition.

We have experienced significant changes in our product demand and, as a result, our required inventory reserves have fluctuated in recent periods. As of December 31, 2004 and 2003, inventory of \$28.3 million and \$13.7 million was net of reserves of \$10.5 million and \$13.8 million. It is possible that significant changes in required inventory reserves may continue to occur in the future if there is a sudden and significant change in the demand for our products, changes in the amount of customer evaluation inventory or higher risks of inventory obsolescence because of rapidly changing technology.

**Warranty Reserve.** Our products are covered by a standard warranty of 90 days for software and one year for hardware. In addition, certain customer contracts include warranty-type provisions for epidemic or similar product failures generally for the contractual period or the life of the product in accordance with published telecommunications standards. Our customers typically purchase maintenance and support contracts, which encompass our warranty obligations. We accrue for such contingent warranty obligations when the occurrence of such obligation is probable and the amount of such obligation is reasonably estimable. We have not incurred significant costs related to such obligations. Our warranty reserve reflects estimated material and labor costs for potential or actual product issues in our installed base that are not covered under our maintenance contracts but for which we expect to incur an obligation. Our estimates of anticipated rates of warranty claims and costs are primarily based on historical information and future forecasts.

In addition, certain of our customer contracts include provisions under which we may be obligated to pay penalties generally for the contractual period or for the life of the product if our products fail or do not perform in accordance with specifications. We accrue for such contingent obligations when the occurrence of such obligation is probable and the amount of such obligation is reasonably estimable. We have not incurred significant costs related to such provisions. We periodically assess the adequacy of our recorded warranty liabilities and adjust the amounts as necessary. Increases in product failure rates, material usage or service delivery costs may result in increases to our warranty reserve and our gross profit could be adversely affected.

**Royalty Accrual.** We accrue for royalties for technology we license from vendors based on established royalty rates and usage. In certain cases, we have been contacted by third parties who claim that our products infringe on certain intellectual property of the third party. We evaluate these claims and accrue for royalties when the amounts are probable and reasonably estimable. While we believe that the amounts accrued for estimated royalties are adequate, the amounts required to ultimately settle royalty obligations may be different.

**Reserve for Litigation and Legal Fees.** We are subject to various legal claims, including securities litigation and intellectual property claims. We reserve for legal contingencies and legal fees when the amounts are probable and reasonably estimable. Our director and officer liability insurance policies provide only limited liability protection relating to the securities class action and derivative lawsuits against us and certain of our officers and directors. In addition, our insurance does not cover fines that may be imposed by the SEC. We intend to defend these matters vigorously, although the ultimate outcome of these items is uncertain and the potential loss, if any, may be significantly different than the amounts we have previously accrued.

**Accounting for Income Taxes.** SFAS No. 109, *Accounting for Income Taxes*, requires the establishment of a valuation allowance to reflect the likelihood of realization of deferred tax assets. Significant management judgment is required in determining our provision for income taxes, our deferred tax assets and liabilities and any valuation allowance recorded against our net deferred tax assets. We evaluate all available evidence, such as recent and expected future operating results by tax jurisdiction, and current and enacted tax legislation and other temporary differences between book and

tax accounting, to determine whether it is more likely than not that some portion or all of the deferred income tax assets will not be realized.

As a result of net operating losses incurred in prior years in most jurisdictions in which we operate, and uncertainty as to the extent, jurisdiction and timing of profitability in future periods, we have continued to record a full valuation allowance against deferred tax assets, which was approximately \$95 million as of December 31, 2004. The establishment and amount of the valuation allowance requires significant estimates and judgment and can materially affect our results of operations. If the realization of deferred tax assets in the future is considered more likely than not, an adjustment to the deferred tax asset's valuation reserve would be made. A portion of the release of the valuation allowance will increase net income in the period such determination was made. In addition, a portion of the valuation allowance (approximately \$26 million) relates to tax benefits from stock option compensation. A substantial portion of the tax benefit of that item, when realized, will result in an increase in capital in excess of par value. Our effective tax rate may vary from period to period based on changes in estimated taxable income or loss in each jurisdiction, changes to the valuation allowance, statutory minimum tax rates or changes to federal, state or foreign tax laws, future expansion into areas with varying country, state, and local income tax rates including statutory minimum tax rates, deductibility of certain costs and expenses by jurisdiction and as a result of acquisitions.

**Valuation of Long-Lived Assets.** In accordance with SFAS No. 144, the carrying value of intangible assets and other long-lived assets is reviewed on a regular basis for the existence of facts or circumstances, both internally and externally, that may suggest impairment. Factors we consider important which could trigger an impairment review include:

- Significant underperformance relative to historical or projected future operating results;
- Significant negative industry or economic trends;
- Significant change in circumstances relative to a large customer;
- Significant decline in our stock price for a sustained period; and
- Our market capitalization relative to our net book value.

If such circumstances exist, we evaluate the carrying value of long-lived assets, other than goodwill, to determine if impairment exists based upon estimated undiscounted future cash flows over the remaining useful life of the assets and comparing that value to the carrying value of the assets. In determining expected future cash flows, assets are grouped at the lowest level for which cash flows are identifiable and independent of cash flows from other asset groups. If the carrying value of the asset is greater than the estimated future cash flows, the asset is written down to its estimated fair value. The estimated undiscounted future cash flows and valuation of long-lived assets requires significant estimates and assumptions, including revenue and expense growth projections and fair value estimates such as estimated replacement cost and relief from royalty. These estimates contain management's best estimates, using appropriate and customary assumptions and projections at the time. If different estimates or assumptions are used, it is reasonably possible that our analysis would generate materially different results. As of December 31, 2004, our intangible assets were fully amortized and had no net book value. As of December 31, 2003, we had \$2.4 million of intangible assets. As of December 31, 2004 and 2003, we had no goodwill.

**Stock-based Compensation.** In October 1995, the FASB issued SFAS No. 123, *Accounting for Stock-Based Compensation*. SFAS No. 123 provides that companies may account for stock-based compensation under either the fair value-based method of accounting under SFAS No. 123 or the intrinsic value-based method provided by APB No. 25, *Accounting for Stock Issued to Employees*. We use the intrinsic value based method of APB No. 25 to account for all of our employee stock-based compensation plans and use the fair value method of SFAS No. 123 to account for all non-employee stock-based

compensation. We follow FIN 28, and amortize the intrinsic value as measured under APB No. 25 on an accelerated basis. SFAS No. 123, as amended by SFAS No. 148, *Accounting for Stock-Based Compensation—Transition and Disclosure—an amendment of FASB Statement No. 123*, requires companies following APB No. 25 to make pro forma disclosure in the notes to the consolidated financial statements using the measurement provisions of SFAS No. 123.

Beginning on July 1, 2005, we will no longer make pro forma disclosure in the notes to the consolidated financial statements for stock-based compensation as we are required to adopt SFAS 123(R), *Share-Based Payment*, which is a revision of SFAS No. 123 and supersedes APB Opinion No. 25. SFAS 123(R) requires all share-based payments to employees, including grants of employee stock options, to be recognized in the income statement based on their fair values at the date of grant in fiscal periods beginning after June 15, 2005.

**Restructuring and Other Related Charges.** We established exit plans for each of the restructuring activities which took place in 2001 and 2002 and accounted for these plans in accordance with Emerging Issues Task Force (EITF) Issue No. 94-3, *Liability Recognition for Certain Employee Benefits and Other Costs to Exit an Activity (including Certain Costs incurred in a Restructuring)*. These exit plans required that we make estimates as to the nature, timing and amount of the exit costs that we specifically identified. The consolidation of facilities required us to make estimates, which included contractual rental commitments or lease buy-outs for office space being vacated and related costs and leasehold improvement write-downs, offset by estimated sub-lease income. We have remaining accrued exit costs of \$799,000 as of December 31, 2004, which relate to remaining lease payments. SFAS No. 146, *Accounting for Costs Associated with Exit or Disposal Activities*, was effective for exit or disposal activities that are initiated after December 31, 2002. SFAS No. 146 requires that a liability for a cost that is associated with an exit or disposal activity be recognized when the liability is incurred. A liability is recognized when the severance amounts relate to prior services rendered, the payment of the amount is probable and the amount can be reasonably estimated.

## Results of Operations

### Years Ended December 31, 2004 and 2003

**Revenues.** Revenues for the years ended December 31, 2004 and 2003 were as follows, in thousands:

	2004	2003
<b>Revenues:</b>		
Product	\$ 124,087	\$ 60,851
Service	46,651	32,359
Total revenues	\$ 170,738	\$ 93,210

Product revenues comprise sales of our voice infrastructure products, including our GSX9000™ Open Services Switch, the Insignus™ Softswitch, the Sonus Insight™ Management System and related product offerings. Product revenues for fiscal 2004 increased 104% from fiscal 2003. The higher revenues in fiscal 2004 were primarily the result of improved market conditions in 2004 for the sale of voice over IP infrastructure products to telecommunications service providers. We can provide no assurance that the improved market conditions will continue in 2005.

Service revenues primarily comprise hardware and software maintenance and support, network design, installation and other professional services. Service revenues for fiscal 2004 increased 44% from fiscal 2003. The increase in service revenues was primarily due to an increase in maintenance revenue as a result of the growing installed customer base.

For the years ended December 31, 2004 and 2003, two and four customers each contributed more than 10% of our revenues, representing an aggregate of 29% and 57% of total revenues.

The following customers contributed 10% or more of our revenues in the years ended December 31, 2004 and 2003:

Customer	2004	2003
Qwest Communications	17%	18%
Verizon Global Networks	*	15
AT&T Wireless Services/Cingular	*	13
Global Crossing	12	11

\* Represents less than 10% of revenues.

International revenues, primarily from Asia and Europe, were 17% and 21% of revenues for the years ended December 31, 2004 and 2003. International revenues decreased as a percentage of total revenues due to a slower rate of growth in revenues outside of the U.S., uneven ordering patterns of our international customers and the achievement of revenue recognition criteria associated with each customer's arrangement. We expect that international revenues will remain uneven as a percentage of revenue from quarter to quarter.

Our deferred product revenue was \$46.2 million and \$47.9 million as of December 31, 2004 and 2003. Our deferred service revenue was \$44.9 million and \$39.1 million as of December 31, 2004 and 2003. Our deferred revenue balance may fluctuate as a result of the timing of revenue recognition, customer payments, maintenance contract renewals, contractual billing rights and maintenance revenue deferrals included in multiple element arrangements.

**Cost of Revenues/Gross Profit.** Our cost of revenues consists primarily of amounts paid to third party manufacturers for purchased materials and services, royalties, manufacturing and professional services personnel and related costs and inventory obsolescence. Cost of revenues and gross profit as a percentage of revenues for the years ended December 31, 2004 and 2003 were as follows (in thousands, except percentages):

	2004	2003
<b>Cost of revenues:</b>		
Product	\$ 32,911	\$ 23,575
Service	17,656	14,334
	\$ 50,567	\$ 37,909
<b>Gross profit (% of respective revenues):</b>		
Product	73%	61%
Service	62	56
Total gross profit	70	59

The increase in product gross profit as a percentage of revenues was primarily due to customer and product mix and, to a lesser extent, improved utilization of fixed costs associated with increased product revenues. In fiscal 2004 we realized a \$3.0 million benefit from the sale of inventory previously written down, as compared to a benefit of \$5.6 million realized in fiscal 2003. We also realized a \$1.9 million benefit from the reduction of warranty reserves in the fourth quarter of 2004. The benefit from the reduction of warranty reserves represented changes in estimates due to the ongoing re-evaluation of expected future warranty requirements. We can provide no assurance that this favorable product and customer mix will continue in 2005 and we expect that over time our product mix, and related gross margins, will return to levels consistent with our long-term financial model of 58-62%. The increase in service gross profit as a percentage of service revenues was primarily due to the higher volume of service revenues attributable to our increasing installed product base and a greater mix of higher margin professional and installation services. Our service cost of revenues is relatively fixed in advance of any particular quarter.

**Research and Development Expenses.** Research and development expenses consist primarily of salaries and related personnel expenses and prototype costs related to the design, development, testing and enhancement of our products. Research and development expenses were \$36.2 million for fiscal 2004, an increase of \$4.0 million, or 12%, from \$32.2 million in fiscal 2003. The increase primarily reflects an increase in salaries and related expenses associated with increased headcount in the approximate amount of \$5.2 million, and increased costs associated with new product introductions, including project materials and third party software costs in the approximate amount of \$1.0 million. These costs were partially offset by a reduction in depreciation expense associated with fully depreciated assets in the approximate amount of \$2.1 million and a change in the methodology by which corporate-wide overhead costs are allocated in the approximate amount of \$1.0 million. Some aspects of our research and development efforts require significant short-term expenditures, the timing of which can cause significant variability in our expenses. We believe that rapid technological innovation is critical to our long-term success and we intend to continue to make substantial investments to enhance our products and technologies to meet the requirements of our customers and market. We believe that our research and development expenses for fiscal 2005 will increase from fiscal 2004 primarily as a result of an increase in salary and related expenses associated with increased headcount and increased depreciation expense associated with higher capital expenditure levels in the latter part of 2004. The average cost of additional headcount in 2005 is expected to decrease due to the expansion of our India development center. The additional investments are directed primarily toward the growth of our access, wireless and international businesses.

**Sales and Marketing Expenses.** Sales and marketing expenses consist primarily of salaries and related personnel costs, commissions, travel and entertainment expenses, promotions, customer evaluations inventory and other marketing and sales support expenses. Sales and marketing expenses were \$35.0 million for fiscal 2004, an increase of \$11.8 million, or 51%, from \$23.2 million in fiscal 2003. The increase is due primarily to increases in salaries and travel costs associated with increased headcount in the approximate amount of \$5.8 million, increases in commissions due to higher revenues in the approximate amount of \$4.4 million, shipments of evaluation equipment to potential customers in the approximate amount of \$800,000 and increased trade show and promotional activity in 2004 in the approximate amount of \$600,000. We believe that our sales and marketing expenses in fiscal 2005 will increase from the fiscal 2004 level primarily as a result of an increase in hiring due to the expansion of our access, wireless and international operations and forecasted higher commissions attributable to increased sales volumes.

**General and Administrative Expenses.** General and administrative expenses consist primarily of salaries and related personnel costs for executive and administrative personnel, recruiting expenses, allowance for doubtful accounts and professional fees. General and administrative expenses were \$24.6 million for fiscal 2004, an increase of \$14.1 million, or 134%, from \$10.5 million in fiscal 2003.

The increase primarily reflects the professional fees incurred as part of: our restatement and investigation into accounting matters, audit and internal control improvement process; an increase in directors and officers insurance costs in the approximate amount of \$3.4 million; and, to a lesser extent, increases in salaries and related expenses associated with increased headcount in the approximate amount of \$1.2 million and a change in the methodology by which corporate-wide overhead costs are allocated in the approximate amount of \$3.6 million, partially offset by reductions in depreciation expense due to fully depreciated assets in the approximate amount of \$1.4 million. We believe that our general and administrative expenses in fiscal 2005 will be flat from the fiscal 2004 level primarily as a result of a decrease in professional fees incurred related to our restatements, offset by the costs associated with improvements we expect to make in our internal control environment to remedy identified material weaknesses.

**Stock-based Compensation Expenses.** Stock-based compensation expenses include the amortization of stock compensation charges resulting from the granting of stock options, including the TTI stock options assumed by us, stock awards to TTI employees under the 2000 Retention Plan and the sales of restricted common stock.

Stock-based compensation expenses were \$671,000 for fiscal 2004, a decrease of \$2.7 million, or 79%, from \$3.4 million in fiscal 2003. The decrease is primarily due to lowered deferred compensation balances resulting from our policy of accelerating amortization of deferred compensation under FIN 28 as described in Note 1 (m) to our consolidated financial statements. We will adopt SFAS 123(R) commencing on July 1, 2005 and are evaluating the impact it will have on stock based compensation expense for fiscal 2005.

**Amortization of Purchased Intangible Assets.** In fiscal 2001, we acquired certain intellectual property, in-process research and development and intangible assets in connection with our acquisitions of TTI and Linguatq. Amortization of purchased intangible assets was \$2.4 million for both fiscal 2004 and 2003. As of December 31, 2004 the purchased intangible assets were fully amortized.

**Interest Income, net.** Interest income consists of interest earned on our cash equivalent balances, marketable securities and long-term investments. Interest expense consists of interest incurred on a convertible subordinated note and capital lease arrangements. Interest income, net of interest expense, was \$3.8 million for fiscal 2004, an increase of \$2.3 million from \$1.5 million in fiscal 2003. The increase primarily reflects the benefit of the increase in our marketable securities balances from the proceeds from our public offerings of common stock in April and September of 2003, and an increase in the yield on our portfolio due to an increasing interest rate environment.

**Income Taxes.** Provisions for income taxes in the amounts of \$687,000 in 2004 and \$302,000 in 2003 have been recorded, which are primarily attributable to foreign income taxes and state and federal alternative minimum income taxes in the U.S. As of December 31, 2004, we had approximately \$168 million of federal, state and foreign net operating loss carryforwards for tax purposes available to offset future taxable income. These net operating loss carryforwards expire at various dates through 2023, to the extent that they are not used. We have not recognized any benefit from the future use of net operating loss carryforwards for any other period since inception. Use of the net operating loss carryforwards may be limited in future years if there is a significant change in our ownership. We have recorded a full valuation allowance for the related net deferred tax asset due to the uncertainty of realizing the benefit of this asset.

*Years Ended December 31, 2003 and 2002*

**Revenues.** Revenues for the years ended December 31, 2003 and 2002 were as follows, in thousands:

	2003	2002
<b>Revenues:</b>		
Product	\$ 60,851	\$ 68,572
Service	32,359	25,345
Total revenues	\$ 93,210	\$ 93,917

Product revenues for fiscal 2003 decreased 11% from fiscal 2002. In 2003, we had a lesser concentration of customers. In 2002, one customer represented 42% of revenues due to the deferral of revenue on product shipped during 2001. The related deferred revenue was recognized as revenue in 2002 upon the completion of the delivery of a specified software upgrade in the second quarter of 2002. Absent this, market conditions in 2003 for the sale of voice infrastructure products to telecommunications providers improved.

Service revenues for fiscal 2003 increased 28% from fiscal 2002. The increase in service revenues was primarily due to an increase in maintenance revenue as a result of the growing installed customer base and the completion of significant professional services and installation projects during the year.

For the years ended December 31, 2003 and 2002, four customers and one customer each contributed more than 10% of our revenues, representing an aggregate of 57% and 42% of total revenues. International revenues, primarily from Asia and Europe, were 21% and 18% of revenues for the years ended December 31, 2003 and 2002.

The following customers contributed 10% or more of our revenues in the years ended December 31, 2003 and 2002:

Customer	2003	2002
Qwest Communications	18%	42%
Verizon Global Networks	15	*
AT&T Wireless Services/Cingular	13	—
Global Crossing	11	*

\* Represents less than 10% of revenues.



**Cost of Revenues/Gross Profit.** Cost of revenues and gross profit as a percentage of revenues for the years ended December 31, 2003 and 2002 were as follows (in thousands, except percentages):

	2003	2002
<b>Cost of revenues:</b>		
Product	\$ 23,575	\$ 33,573
Service	14,334	11,873
Write-off of inventory and purchase commitments	—	6,130
<b>Total cost of revenues</b>	<b>\$ 37,909</b>	<b>\$ 51,576</b>
<b>Gross profit (% of respective revenues):</b>		
Product	61%	51%
Service	56	53
<b>Total gross profit</b>	<b>59</b>	<b>45 (1)</b>

(1) Includes the impact of a \$6.1 million charge for the write-off of inventory and purchase commitments.

The increase in product gross profit as a percentage of revenues, excluding the write-offs, was primarily due to a greater proportion of revenues of higher margin products as well as the benefit resulting from the sale of inventory previously written down of \$5.6 million. In 2002, included in cost of product revenues is \$3.0 million for technology and intellectual property licensing related to our products. The increase in service gross profit as a percentage of revenues was primarily due to our ability to leverage scalability of our service organization to fulfill customer service functions.

**Research and Development Expenses.** Research and development expenses were \$32.2 million for fiscal 2003, a decrease of \$12.4 million, or 28%, from \$44.6 million in fiscal 2002. The decrease primarily reflects a reduction in staffing levels and related expenses attributable to restructuring actions and depreciation expense, partially offset by the cessation in April 2003 of a temporary salary reduction imposed in April 2002.

**Sales and Marketing Expenses.** Sales and marketing expenses were \$23.2 million for fiscal 2003, a decrease of \$4.6 million, or 17%, from \$27.8 million in fiscal 2002. The decrease primarily reflects a reduction in staffing levels and related expenses attributable to restructuring actions partially offset by the cessation in April 2003 of a temporary salary reduction imposed in April 2002.

**General and Administrative Expenses.** General and administrative expenses were \$10.5 million for fiscal 2003, an increase of \$5.3 million, or 102%, from \$5.2 million in fiscal 2002. The increase primarily reflects a \$4.6 million increase in independent registered public accounting firm audit fees incurred related to our restatements.

**Stock-based Compensation Expenses.** Stock-based compensation expenses were \$3.4 million for fiscal 2003, a decrease of \$13.5 million, or 80%, from \$16.9 million in fiscal 2002. The decrease is primarily attributable to lower deferred compensation balances resulting from our policy of accelerating amortization of deferred compensation under FIN 28 as described in Note 1 (m) to our consolidated financial statements, as well as write-offs made in connection with employee terminations and our offer to exchange certain employee stock options in October 2002 described below, which resulted in a charge of \$562,000.

On October 16, 2002, we commenced an offer to exchange (Exchange Offer) outstanding employee stock options for new stock options to be granted on a date that is at least six months and one day from the expiration date of the Exchange Offer. The Exchange Offer expired on November 22, 2002, and outstanding options to purchase approximately 8,973,000 shares of common stock were accepted

for exchange and cancelled. On May 27, 2003, employees received an option to purchase one share of common stock for each share of common stock under the exchanged options at an exercise price of \$4.08 per share, representing the fair market value of our common stock on the date of grant.

**Amortization of Purchased Intangible Assets.** In fiscal 2001, we acquired certain intellectual property, in-process research and development and intangible assets in connection with our acquisitions of TTI and Linguatq. Amortization of purchased intangible assets was \$2.4 million for fiscal 2003, a decrease of \$1.8 million, or 43%, from \$4.2 million for fiscal 2002. In the third quarter of fiscal 2002, in accordance with SFAS No. 142, in response to unfavorable business conditions, we re-evaluated the fair value of our goodwill and as a result recorded a non-cash impairment charge of \$10.9 million for the write-off of goodwill established in connection with the acquisitions of TTI and Linguatq. The decrease in amortization expenses for 2003 is due to the write-off of certain purchased intangibles in fiscal 2002.

**Restructuring Charges, net.** Commencing in the third quarter of fiscal 2001 and extending through fiscal 2002, in response to unfavorable business conditions primarily caused by significant reductions in capital spending by telecommunications service providers, we implemented restructuring actions designed to reduce expenses and align our cost structure with our revised business outlook. The restructuring actions included worldwide workforce reductions, consolidation of excess facilities and the write-off of inventory and purchase commitments. See Note 2 to our consolidated financial statements.

**Workforce reduction.** In fiscal 2002, we reduced our worldwide work force for which we recorded a charge of \$5.3 million. As of December 31, 2003, all cash expenditures had been made related to this reduction.

**Consolidation of excess facilities.** In fiscal 2002, we recorded a net restructuring charge of \$2.5 million for the additional consolidation of excess facilities, of which \$1.0 million was paid in 2002 and \$1.1 million was paid in 2003.

**Write-off of inventory and purchase commitments.** In fiscal 2002, we recorded net charges to cost of revenues of \$6.1 million, consisting of \$4.5 million for excess and obsolete inventory and \$1.6 million for purchase commitments that were in excess of required quantities. The charge for purchase commitments was recorded on the balance sheet as accrued restructuring expenses.

**Interest Income, net.** Interest income, net of interest expense, was \$1.5 million for fiscal 2003, an increase of \$200,000 from \$1.3 million in fiscal 2002. The increase primarily reflects the benefit of the increase in our marketable securities balances from the proceeds from our public offerings of common stock in April and September of 2003.

**Income Taxes.** Provisions for income taxes in the amounts of \$302,000 in 2003 and \$86,000 in 2002 have been recorded, which are primarily attributable to foreign income taxes and state and federal minimum income taxes in the U.S. Our effective tax rate is not meaningful due to net operating loss carryforwards which reduce current taxable income.

#### **Off-Balance Sheet Arrangements**

We have no off-balance sheet arrangements that have or are reasonably likely to have a current or future material effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources.

#### **Liquidity and Capital Resources**

At December 31, 2004, our principal source of liquidity was our cash, cash equivalents, marketable securities and long-term investments that totaled \$313.1 million. In September 2003, we completed a

public offering of 17,000,000 shares of our common stock at a price of \$7.75 per share resulting in net proceeds of \$126.1 million after deducting offering costs of \$5.7 million. In April 2003, we completed a public offering of 20,000,000 shares of our common stock at a price of \$3.05 per share, resulting in net proceeds of \$56.7 million after deducting offering costs of \$4.3 million.

Our cash flow from operating activities was \$11.1 million in fiscal 2004, as compared to \$4.8 million in fiscal 2003. The increase in cash provided by operating activities in 2004 was primarily due to our improved results of operations and an increase in our accounts payable and deferred revenues, partially offset by an increase in accounts receivable, inventory and other current assets and a decrease in accrued expenses as of December 31, 2004. The increase in other current assets includes the renewal premium for our directors and officers liability insurance paid in June 2004 in the amount of \$6.8 million, net of amortization of \$4.0 million. Other changes in our working capital are generally the result of increases in our business activity.

Net cash used in investing activities was \$28.1 million for fiscal 2004, as compared to net cash used in investing activities of \$114.8 million for fiscal 2003. Net cash used in investing activities for fiscal 2004 primarily reflects net purchases of marketable securities and long-term investments of \$19.5 million and capital expenditures of \$9.0 million. Net cash used in investing activities for fiscal 2003 primarily reflects net purchases of marketable securities of \$110.8 million using the proceeds of our public offerings of common stock completed in April and September 2003, in addition to purchases of property and equipment of \$3.2 million. We expect approximately \$13.0 to \$17.0 million in capital expenditures during fiscal 2005.

Net cash provided by financing activities was \$5.2 million for fiscal 2004, as compared to \$186.4 million for fiscal 2003. The net cash provided by financing activities for fiscal 2004 primarily resulted from the sale of common stock in connection with our employee stock purchase plan of \$1.7 million and proceeds from exercise of stock options of \$3.7 million, partially offset by payments on our long-term liabilities of \$0.2 million. The net cash provided by financing activities for fiscal 2003 primarily resulted from the net proceeds of \$182.8 million from the public offerings of common stock completed in April and September 2003 as well as \$6.9 million from the sale of common stock in connection with stock option exercises and our employee stock purchase plan, offset by payments of \$3.4 million on the equipment line of credit.

The following summarizes our future contractual obligations as of December 31, 2004, in thousands:

	Payment Due By Period			
	Total	Less than 1 year	1	3
<b>Contractual Obligations:</b>				
Long-term debt obligations	\$ 10,713	\$ 475	\$ 10,238	\$ —
Capital lease obligations	30	30	—	—
Operating lease obligations	3,149	1,250	1,503	396
Purchase commitments	3,009	3,009	—	—
<b>Total</b>	<b>\$ 16,901</b>	<b>\$ 4,764</b>	<b>\$ 11,741</b>	<b>\$ 396</b>

Based on our past performance and current expectations, we believe our current cash, cash equivalents and marketable securities will be sufficient to meet our anticipated cash needs for working capital and capital expenditures for at least 12 months. Although it is difficult to predict future liquidity requirements with certainty, the rate at which we will consume cash will be dependent on the cash needs of future operations, including changes in working capital, which will, in turn, be directly affected by the levels of demand for our products, the timing and rate of expansion of our business, the resources we devote to developing our products and any litigation settlements or SEC fines. We

anticipate devoting substantial capital resources to continue our research and development efforts, to maintain our sales, support and marketing, to improve our controls environment and for other general corporate activities, as well as to vigorously defend against existing and potential litigation and resolve pending or potential investigations relating to the restatement of our consolidated financial statements. See Note 9 to our consolidated financial statements.

## Recent Accounting Pronouncements

In August 2003, the EITF reached a consensus on Issue No. 03-05, *Applicability of AICPA Statement of Position 97-2 to Non-Software Deliverables in an Arrangement Containing More-Than-Incidental Software*. EITF Issue No. 03-05 addresses the applicability of SOP 97-2 to non-software deliverables in an arrangement containing more-than-incidental software. In an arrangement that includes software that is more-than-incidental to the products or services as a whole, software and software-related elements are included within the scope of SOP 97-2. Software-related elements include software products and services, as well as any non-software deliverables for which a software deliverable is essential to its functionality. The adoption of this statement did not have a material impact on our consolidated financial results.

In December 2003, the staff of the SEC issued Staff Accounting Bulletin (SAB) No. 104, *Revenue Recognition*, which supersedes SAB No. 101, *Revenue Recognition in Financial Statements*. SAB No. 104's primary purpose is to rescind the accounting guidance contained in SAB No. 101 related to multiple-element revenue arrangements that was superseded as a result of the issuance of EITF Issue No. 00-21, *Accounting for Revenue Arrangements with Multiple Deliverables*. Additionally, SAB No. 104 rescinds the SEC's related *Revenue Recognition in Financial Statements Frequently Asked Questions and Answers* issued with SAB No. 101 that had been codified in SEC Topic 13, *Revenue Recognition*. While the wording of SAB No. 104 has changed to reflect the issuance of EITF 00-21, the revenue recognition principles of SAB No. 101 remain largely unchanged by the issuance of SAB No. 104, which was effective upon issuance. We adopted the provisions of SAB No. 104 in the fourth quarter of 2003. Our adoption of SAB No. 104 did not have a material effect on our financial position or results of operations.

In November 2004, the FASB issued SFAS No. 151, *Inventory Costs, an Amendment of Accounting Research Bulletin (ARB) No. 43, Chapter 4*. SFAS 151 amends the guidance in ARB No 43, Chapter 4, "Inventory Pricing" to clarify that abnormal amounts of idle facility expense, freight, handling costs, and wasted material (spoilage) should be recognized as current-period charges. In addition, SFAS 151 requires that allocation of fixed production overhead to the costs of conversion be based on the normal capacity of the production facilities. The provisions of SFAS 151 are effective for fiscal years beginning after June 15, 2005. We are evaluating the provisions of SFAS 151 and do not believe that its adoption will have a material impact on our financial condition, results of operations or cash flows.

In December 2004, the FASB issued SFAS 123(R), *Share-Based Payment*, which is a revision of SFAS No. 123, *Accounting for Stock-Based Compensation*. SFAS 123(R) supersedes APB Opinion No. 25, *Accounting for Stock Issued to Employees*, and amends SFAS No. 95, *Statement of Cash Flows*. Generally, the approach in SFAS 123(R) is similar to the approach described in SFAS 123. However, SFAS 123(R) requires all share-based payments to employees, including grants of employee stock options, to be recognized in the income statement based on their fair values at the date of grant. Pro forma disclosure is no longer an alternative. SFAS 123(R) must be adopted in fiscal periods beginning after June 15, 2005. Early adoption will be permitted in periods in which financial statements have not yet been issued. We are required to adopt SFAS 123(R) on July 1, 2005, the commencement of our third quarter of fiscal 2005. SFAS 123(R) permits public companies to adopt its requirements using one of two methods: a "modified prospective" method in which compensation cost is recognized beginning with the effective date (a) based on the requirements of SFAS 123(R) for all share-based payments granted after the effective date, and (b) based on the requirements of SFAS 123 for all awards granted

to employees prior to the effective date of SFAS 123(R) that remain unvested on the effective date; or a "modified retrospective" method, which includes the requirements of the modified prospective method described above, but also permits entities to restate based on the amounts previously recognized under SFAS 123 for purposes of pro forma disclosures either (a) all prior periods presented or (b) prior interim periods of the year of adoption. We have not yet determined which method to use in adopting SFAS 123(R). As permitted by SFAS 123, we currently account for share-based payments to employees using APB Opinion No. 25's intrinsic value method and, as such, generally recognize no compensation cost for employee stock options. We are evaluating SFAS 123(R) and have not yet determined the amount of stock option expense that will be incurred in future periods as a result of the adoption of SFAS 123(R). The adoption of SFAS 123(R) will have no impact on our net cash flows or overall financial condition.

In October 2004, the American Jobs Creation Act of 2004 (the "AJCA") was passed. The AJCA provides a deduction for income from qualified domestic production activities, which will be phased in from 2005 through 2010. The AJCA also provides for a two-year phase-out of the existing extra-territorial income exclusion for foreign sales that was viewed to be inconsistent with international trade protocols by the European Union. In December 2004, the FASB issued FASB Staff Position ("FSP") No. 109-1, *"Application of FASB Statement No. 109, Accounting for Income Taxes, to the Tax Deduction on Qualified Production Activities Provided by the American Jobs Creation Act of 2004."* FSP 109-1 treats the deduction as a "special deduction" as described in SFAS No. 109. This special deduction has no effect on deferred tax assets and liabilities existing at the enactment date and the effect of this deduction will be reported in the same period in which the deduction is claimed in our tax return. The AJCA also creates a temporary incentive for U.S. corporations to repatriate accumulated income earned abroad by providing an 85% dividends received deduction for certain dividends from controlled foreign corporations. This deduction is subject to a number of limitations. We are currently evaluating the effects that the AJCA might have on our results of operations and financial position, and, or to what extent, we might repatriate foreign earnings that have not yet been remitted to the U.S.

### **Explanation of Use of Non-GAAP Financial Results**

In addition to our audited financial results in accordance with United States generally accepted accounting principles (GAAP), to assist investors we may on occasion provide certain non-GAAP financial results as an alternative means to explain our periodic results. The non-GAAP financial results typically may exclude non-cash or one-time charges or benefits.

Our management uses the non-GAAP financial results internally as an alternative means for assessing our results of operations. By excluding non-cash charges such as stock-based compensation, amortization of purchased intangible assets, impairment of goodwill and purchased intangible assets and in-process research and development expenses, our management can evaluate our operations excluding these non-cash charges and can compare its results on a more consistent basis to the results of other companies in our industry. By excluding one-time charges such as restructuring charges (benefits) and inventory write-offs, our management can compare our ongoing operations to prior quarters where such items may be materially different and to ongoing operations of other companies in our industry who may have materially different one-time charges. Our management recognizes that non-GAAP financial results are not a substitute for GAAP results, and believes that non-GAAP measures are helpful in assisting them in understanding and managing our business.

Our management believes that the non-GAAP financial results may also provide useful information to investors. Non-GAAP results may also allow investors and analysts to more readily compare our operations to prior financial results and to the financial results of other companies in the industry who similarly provide non-GAAP results to investors and analysts. Investors may seek to evaluate our business performance and the performance of our competitors as they relate to cash. Excluding one-time and non-cash charges may assist investors in this evaluation and comparisons.

We intend to continue to assess the potential value of reporting non-GAAP results consistent with applicable rules and regulations.

## RISK FACTORS

*Investing in our common stock involves a high degree of risk. You should carefully consider the risks described below before buying our common stock. If any of the following risks actually occurs, the trading price of our common stock could decline and you may lose all or part of your investment.*

***We have identified material weaknesses in our disclosure controls and procedures and our internal control over financial reporting, which, if not remedied effectively, could have an adverse effect on the trading price of our common stock and otherwise seriously harm our business.***

Management through, in part, the documentation, testing and assessment of our internal control over financial reporting pursuant to the rules promulgated by the SEC under Section 404 of the Sarbanes-Oxley Act of 2002 and Item 308 of Regulation S-K has concluded that our disclosure controls and procedures and our internal control over financial reporting had material weaknesses as of December 31, 2004. We have taken certain actions to begin to address those material weaknesses. Our inability to remedy such material weaknesses promptly and effectively could have a material adverse effect on our business, results of operations and financial condition, as well as impair our ability to meet our quarterly and annual reporting requirements in a timely manner. These effects could in turn adversely affect the trading price of our common stock. Prior to the remediation of these material weaknesses, there remains risk that the transitional controls on which we currently rely will fail to be sufficiently effective, which could result in a material misstatement of our financial position or results of operations and require a restatement. In addition, even if we are successful in strengthening our controls and procedures, such controls and procedures may not be adequate to prevent or identify irregularities or facilitate the fair presentation of our financial statements or SEC reporting.

***Failure or circumvention of our controls and procedures could seriously harm our business.***

We are making significant changes in our internal control over financial reporting and our disclosure controls and procedures. Any system of controls, however well designed and operated, is based in part on certain assumptions and can provide only reasonable, and not absolute, assurances that the objectives of the system are met. The failure or circumvention of our controls, policies and procedures could have a material adverse effect on our business, results of operations and financial condition.

***We face risks related to securities litigation and investigations that could have a material adverse effect on our business, financial condition and results of operations.***

We have been named as a defendant in a number of securities class action and derivative lawsuits and are the subject of a formal investigation initiated by the SEC. We are generally obliged, to the extent permitted by law, to indemnify our current and former directors and officers who are named as defendants in some of these lawsuits. Defending against existing and potential litigation relating to the restatement of our consolidated financial statements will likely require significant attention and resources of management. Regardless of the outcome, such litigation and investigation will result in significant legal expenses and may also negatively affect our relationships with our customers and our employees. If our defenses are ultimately unsuccessful, or if we are unable to achieve a favorable settlement, we could be liable for large damage awards that could have a material adverse effect on our business, results of operations and financial condition.

***The limitations of our director and officer liability insurance may materially harm our business and financial condition.***

Our director and officer liability insurance policies provide only limited liability protection relating to the securities class action and derivative lawsuits against us and certain of our officers and directors.

In addition, our insurance does not cover fines that may be imposed by the SEC. If these policies do not adequately cover expenses and certain liabilities relating to these lawsuits, our results of operations and our financial condition could be materially harmed. The facts underlying the lawsuits and SEC investigation have made director and officer liability insurance extremely expensive for us, and may make this insurance coverage unavailable for us in the future. Increased premiums could materially harm our financial results in future periods. The inability to obtain this coverage due to its unavailability or prohibitively expensive premiums would make it more difficult to retain and attract officers and directors and expose us to potentially self-funding any potential future liabilities ordinarily mitigated by director and officer liability insurance.

***Management's time and effort expected to be spent to respond to the SEC investigation may adversely affect our business and our results of operations.***

We have received a formal order of private investigation from the SEC. Our management will spend considerable time and effort cooperating with the SEC in its investigation. The significant time and effort expected to be spent on this SEC investigation may adversely affect our business, results of operations and financial condition. We may incur substantial costs in connection with the investigation including fines and significant legal expenses.

***If we are not current in our SEC filings, we will face several adverse consequences.***

If we are unable to remain current in our SEC filings, we will not be able to have a registration statement under the Securities Act of 1933, covering a public offering of securities, declared effective by the SEC, and we will not be able to make offerings pursuant to existing registration statements (including registration statements on Form S-8 covering employee stock plans), or pursuant to certain "private placement" rules of the SEC under Regulation D to any purchasers not qualifying as "accredited investors." In addition, our affiliates will not be able to sell our securities pursuant to Rule 144 under the Securities Act. Finally, we will not be eligible to use a "short form" registration statement on Form S-3 for a period of 12 months after the time we become current in our filings. These restrictions may impair our ability to raise funds in the public markets should we desire to do so, and to attract and retain key employees.

***Our common stock may be delisted from the NASDAQ National Market and transferred to the National Quotation Service Bureau ("Pink Sheets"), which may, among other things, reduce the price of our common stock and the levels of liquidity available to our stockholders.***

NASDAQ has notified us that we must timely file, without regard to any applicable 12b-25 extension period, all periodic reports with the SEC and NASDAQ for all reporting periods ending on or before September 30, 2005 due to our having been delisted in the third quarter of 2004. If we fail to keep current in our SEC filings, our common stock may be delisted from the NASDAQ National Market and subsequently would trade on the Pink Sheets. The trading of our common stock on the Pink Sheets may reduce the price of our common stock and the levels of liquidity available to our stockholders. In addition, the trading of our common stock on the Pink Sheets will materially adversely affect our access to the capital markets, and the limited liquidity and reduced price of our common stock could materially adversely affect our ability to raise capital through alternative financing sources on terms acceptable to us or at all. Stocks that trade on the Pink Sheets are no longer eligible for margin loans, and a company trading on the Pink Sheets cannot avail itself of federal preemption of state securities or "blue sky" laws, which adds substantial compliance costs to securities issuances, including pursuant to employee option plans, stock purchase plans and private or public offerings of securities. Our delisting from the NASDAQ National Market and transfer to the Pink Sheets may also result in other negative implications, including the potential loss of confidence by suppliers, customers and employees, the loss of institutional investor interest and fewer business development opportunities.

***Our business has been adversely affected by developments in the telecommunications industry and these developments may continue to affect our revenues and operating results.***

From our inception through the year 2000, the telecommunications market experienced rapid growth spurred by a number of factors, including deregulation in the industry, entry of a large number of new emerging service providers, growth in data traffic and the availability of significant capital from the financial markets. Commencing in 2001 and continuing through 2004, the telecommunications industry experienced a reversal of some of these trends, marked by dramatic reductions in capital expenditures, financial difficulties, and, in some cases, bankruptcies experienced by service providers. These conditions caused a substantial, unexpected reduction in demand for telecommunications equipment, including our products.

We expect the developments described above to continue to affect our business in the following manner:

- our ability to accurately forecast revenue and plan our business is diminished;
- our revenues could be unexpectedly reduced; and
- we may incur losses because a high percentage of our operating expenses are expected to continue to be fixed in the short-term.

Our business, operating results and financial condition could be materially and adversely affected by any one or a combination of the above.

***Consolidation in telecommunications industry could harm our business.***

The industry has experienced consolidation and we expect this trend to continue. Consolidation among our customers may cause delays or reductions in capital expenditure plans and/or increased competitive pricing pressures as the number of available customers declines and their relative purchasing power increases in relation to suppliers. Any of these factors could adversely affect our business.

***We expect that a majority of our revenues will be generated from a limited number of customers and we will not be successful if we do not grow our customer base.***

To date, we have shipped our products to a limited number of customers. We expect that in the foreseeable future, the majority of our revenues will continue to depend on sales of our products to a limited number of customers. Two customers each contributed more than 10% of our revenues for fiscal 2004, which represented an aggregate of 29% of total revenues. Four customers and one customer each contributed more than 10% of our revenues for fiscal 2003 and 2002, which represented an aggregate 57% and 42% of total revenues. Our future success will depend on our ability to attract additional customers beyond our current limited number. The growth of our customer base could be adversely affected by:

- acquisition of or by our customers;
- customer unwillingness to implement our new voice infrastructure products or renew contracts as they expire;
- potential customer concerns with selecting an emerging telecommunications equipment vendor;
- delays or difficulties that we may incur in completing the development and introduction of our planned products or product enhancements;
- further deterioration in the general financial condition of service providers, including additional bankruptcies, or inability to raise capital;



- new product introductions by our competitors;
- failure of our products to perform as expected; or
- difficulties we may incur in meeting customers' delivery requirements.

The loss of any of our significant customers or any substantial reduction in orders or contractual commitments from these customers could materially adversely affect our financial condition and results of operations. If we do not expand our customer base to include additional customers that deploy our products in operational commercial networks, our business, operating results and financial condition could be materially and adversely affected.

***The market for voice infrastructure products for the new public network is new and evolving and our business will suffer if it does not develop as we expect.***

The market for our products continues to evolve. In particular, wireless, cable and broadband access networks are emerging to become important markets for our products. Packet-based technology may not become widely accepted as a platform for voice and a viable market for our products may not be sustainable. If this market does not develop, or develops more slowly than we expect, we may not be able to sell our products in significant volume.

***If we do not anticipate and meet specific customer requirements or if our products do not interoperate with our customers' existing networks, we may not retain current customers or attract new customers.***

To achieve market acceptance for our products, we must effectively anticipate, and adapt in a timely manner to, customer requirements and offer products and services that meet changing customer demands. Prospective customers may require product features and capabilities that our current products do not have. The introduction of new or enhanced products also requires that we carefully manage the transition from older products in order to minimize disruption in customer ordering patterns and ensure that adequate supplies of new products can be delivered to meet anticipated customer demand. If we fail to develop products and offer services that satisfy customer requirements, or to effectively manage the transition from older products, our ability to create or increase demand for our products would be seriously harmed and we may lose current and prospective customers.

Many of our customers will require that our products be designed to interface with their existing networks, each of which may have different specifications. Issues caused by an unanticipated lack of interoperability may result in significant warranty, support and repair costs, divert the attention of our engineering personnel from our hardware and software development efforts and cause significant customer relations problems. If our products do not interoperate with those of our customers' networks, installations could be delayed or orders for our products could be cancelled, which would seriously harm our gross margins and result in loss of revenues or customers.

***Our large customers have substantial negotiating leverage, which may require that we agree to terms and conditions that may have an adverse effect on our business.***

Large telecommunications providers have substantial purchasing power and leverage negotiating contractual arrangements with us. These customers may require us to develop additional features and require penalties for failure to deliver such features. As we seek to sell more products to this class of customer, we may be required to agree to such terms and conditions, which may affect the timing of revenue recognition and amount of deferred revenues and may have an adverse effect on our business and financial condition.

***We rely on distribution partners to sell our products in certain markets, and disruptions to or our failure to effectively develop and manage our distribution channel and the processes and procedures that support it could adversely affect our ability to generate revenues from the sale of our products in those markets.***

Our future success is highly dependent upon establishing and maintaining successful relationships with a variety of value-added reseller and distribution partners. A portion of our revenues is derived through distributors, many of which sell competitive products. Our revenues depend in part on the performance of these distributors. The loss of or reduction in sales by these distributors could materially reduce our revenues. If we fail to maintain relationships with these distribution partners, fail to develop new relationships with distributors in new markets, fail to manage, train, or provide incentives to, existing distributors effectively or if these partners are not successful in their sales efforts, sales of our products may decrease and our operating results would suffer.

In addition, we recognize a portion of our revenue based on a sell-through model using information provided by our distributors. If those distributors provide us with inaccurate or untimely information, the amount or timing of our revenues could be adversely impacted.

***We may face risks associated with our international expansion that could impair our ability to grow our revenues abroad.***

International revenues, primarily attributable to Asia and Europe, were approximately \$28.8 million for fiscal 2004 and we intend to expand our sales into international markets. This expansion will require significant management attention and financial resources to successfully develop direct and indirect international sales and support channels. In addition, we may not be able to develop international market demand for our products, which could impair our ability to grow our revenues. We have limited experience marketing, distributing and supporting our products internationally and, to do so, we expect that we will need to develop versions of our products that comply with local standards. Furthermore, international operations are subject to other inherent risks, including:

- reliance on distributors and resellers;
- greater difficulty collecting accounts receivable and longer collection periods;
- difficulties and costs of staffing and managing international operations;
- the impact of differing technical standards outside the United States;
- the impact of recessions in economies outside the United States;
- unexpected changes in regulatory requirements and currency exchange rates;
- certification requirements;
- reduced protection for intellectual property rights in some countries;
- potentially adverse tax consequences; and
- political and economic instability.

***We may not remain profitable.***

We have incurred significant losses since inception and, as of December 31, 2004, had an accumulated deficit of \$784.1 million. While we achieved profitability on an annual basis for the first time in fiscal 2004, we may incur additional net losses in future quarters and years. Our revenues may not grow and we may never generate sufficient revenues to sustain profitability.

***The unpredictability of our quarterly results may adversely affect the trading price of our common stock.***

Our revenues and operating results may vary significantly from quarter to quarter due to a number of factors, many of which are outside of our control and any of which may cause our stock price to fluctuate. Generally, purchases by service providers of telecommunications equipment from manufacturers have been unpredictable and clustered, rather than steady, as the providers build out their networks. The primary factors that may affect our revenues and results include the following:

- fluctuation in demand for our voice infrastructure products and the timing and size of customer orders;
- the cancellation or deferral of existing customer orders or the renegotiation of existing contractual commitments;
- the failure of certain of our customers to successfully and timely reorganize their operations, including emerging from bankruptcy;
- the length and variability of the sales cycle for our products;
- the timing of revenue recognition and amount of deferred revenues;
- new product introductions and enhancements by our competitors and us;
- changes in our pricing policies, the pricing policies of our competitors and the prices of the components of our products;
- our ability to develop, introduce and ship new products and product enhancements that meet customer requirements in a timely manner;
- the mix of product configurations sold;
- our ability to obtain sufficient supplies of sole or limited source components;
- our ability to attain and maintain production volumes and quality levels for our products;
- costs related to acquisitions of complementary products, technologies or businesses;
- general economic conditions, as well as those specific to the telecommunications, networking and related industries;
- consolidation within the telecommunications industry, including acquisitions of or by our customers, and
- the application of complex revenue recognition accounting rules to our customer arrangements.

As with other telecommunications product suppliers, we may recognize a substantial portion of our revenue in a given quarter from sales booked and shipped in the last weeks of that quarter. As a result, delays in customer orders may result in delays in shipments and recognition of revenue beyond the end of a given quarter.

A significant portion of our operating expenses is fixed in the short-term. If revenues for a particular quarter are below expectations, we may not be able to reduce operating expenses proportionally for the quarter. Any such revenue shortfall would, therefore, have a significant effect on our operating results for the quarter.

We believe that quarter-to-quarter comparisons of our operating results are not a good indication of our future performance. It is likely that in some future quarters, our operating results may be below the expectations of public market analysts and investors, which may adversely affect our stock price.

***We are entirely dependent upon our voice infrastructure products and our future revenues depend upon their commercial success.***

Our future growth depends upon the commercial success of our voice infrastructure products. We intend to develop and introduce new products and enhancements to existing products in the future. We may not successfully complete the development or introduction of these products. If our target customers do not adopt, purchase and successfully deploy our current or planned products, our revenues will not grow.

***If we do not respond rapidly to technological changes or to changes in industry standards, our products could become obsolete.***

The market for packet voice infrastructure products is likely to be characterized by rapid technological change and frequent new product introductions. We may be unable to respond quickly or effectively to these developments. We may experience difficulties with software development, hardware design, manufacturing or marketing that could delay or prevent our development, introduction or marketing of new products and enhancements. The introduction of new products by our competitors, the market acceptance of products based on new or alternative technologies or the emergence of new industry standards could render our existing or future products obsolete. If the standards adopted are different from those that we have chosen to support, market acceptance of our products may be significantly reduced or delayed. If our products become technologically obsolete, we may be unable to sell our products in the marketplace and generate revenues.

***If we fail to compete successfully, our ability to increase our revenues or achieve profitability will be impaired.***

Competition in the telecommunications market is intense. This market has historically been dominated by large companies, such as Lucent Technologies, NEC, Nortel Networks and Siemens, all of which are our direct competitors. We also face competition from other large telecommunications and networking companies, including Cisco Systems, some of which have entered our market by acquiring companies that design competing products. Because this market is rapidly evolving, additional competitors with significant financial resources may enter these markets and further intensify competition.

Many of our current and potential competitors have significantly greater selling and marketing, technical, manufacturing, financial and other resources. Further, some of our competitors sell significant amounts of other products to our current and prospective customers. Our competitors' broad product portfolios, coupled with already existing relationships, may cause our customers to buy our competitors' products or harm our ability to attract new customers.

To compete effectively, we must deliver innovative products that:

- provide extremely high reliability and voice quality;
- scale easily and efficiently;
- interoperate with existing network designs and other vendors' equipment;
- provide effective network management;
- are accompanied by comprehensive customer support and professional services; and
- provide a cost-effective and space efficient solution for service providers.

If we are unable to compete successfully against our current and future competitors, we could experience price reductions, order cancellations, loss of customers and revenues and reduced gross profit margins.

***Because our products are sophisticated and designed to be deployed in complex environments, they may have errors or defects that we find only after full deployment, which could seriously harm our business.***

Our products are sophisticated and are designed to be deployed in large and complex networks. Because of the nature of our products, they can only be fully tested when substantially deployed in very large networks with high volumes of traffic. Some of our customers have only recently begun to commercially deploy our products and they may discover errors or defects in the software or hardware, or the products may not operate as expected. As we continue to expand our distribution channel through distributors and resellers, we will need to rely on and support their service and support organizations. If we are unable to fix errors or other performance problems that may be identified after full deployment of our products, we could experience:

- loss of, or delay in, revenues;
- loss of customers and market share;
- a failure to attract new customers or achieve market acceptance for our products;
- increased service, support and warranty costs and a diversion of development resources; and
- costly and time-consuming legal actions by our customers.

***Because our products are deployed in large, complex networks around the world, failure to establish a support infrastructure and maintain required support levels could seriously harm our business.***

Our products are deployed in large and complex networks around the world. Our customers expect us to establish a support infrastructure and maintain demanding support standards to ensure that their networks maintain high levels of availability and performance. To support the continued growth of our business, our support organization will need to provide service and support at a high level throughout the world. If we are unable to provide the expected level of support and service to our customers, we could experience:

- loss of customers and market share;
- a failure to attract new customers in new geographies;
- increased service, support and warranty costs and a diversion of development resources; and
- network performance penalties.

***We have experienced changes in our senior management recently, which could affect our business and operations.***

We have made significant changes in our senior management team recently including the hiring of a new Chief Financial Officer in December 2004. Since April 2004, we have also hired a President and Chief Operating Officer, Chief Marketing Officer and General Manager of Europe, Middle East and Africa, a new Vice President of Finance, Corporate Controller and Chief Accounting Officer. Because of these recent changes, our management team may not be able to work together effectively to successfully develop and implement our business strategies and financial operations. In addition, management will need to devote significant attention and resources to preserve and strengthen relationships with employees, customers and the investor community. If our new management team is unable to achieve these goals, our ability to grow our business and successfully meet operational challenges could be impaired.

***If we fail to hire and retain needed personnel, the implementation of our business plan could slow or our future growth could halt.***

Our business depends upon highly skilled engineering, sales, marketing and customer support personnel. Any failure to hire or retain needed qualified personnel could impair our growth. Our future success depends upon the continued services of our executive officers who have critical industry experience and relationships that we rely on to implement our business plan. None of our officers or key employees is bound by an employment agreement for any specific term. The loss of the services of any of our officers or key employees could delay the development and introduction of, and negatively impact our ability to sell, our products.

***If we are subject to employment claims, we could incur substantial costs in defending ourselves.***

We may become subject to employment claims in connection with employee terminations. In addition, companies in our industry whose employees accept positions with competitors frequently claim that their competitors have engaged in unfair hiring practices. These claims may result in material litigation. We could incur substantial costs defending ourselves or our employees against those claims, regardless of their merits. In addition, defending ourselves from those types of claims could divert our management's attention from our operations. If we are found liable in connection with any employment claim, we may incur significant costs that could adversely impact our financial condition and results of operations.

***We depend upon contract manufacturers and any disruption in these relationships may cause us to fail to meet the demands of our customers and damage our customer relationships.***

We rely on a small number of contract manufacturers to manufacture our products according to our specifications and to fill orders on a timely basis. Our contract manufacturers provide comprehensive manufacturing services, including assembly of our products and procurement of materials. Each of our contract manufacturers also builds products for other companies and may not always have sufficient quantities of inventory available to fill our orders or may not allocate their internal resources to fill these orders on a timely basis. We do not have long-term supply contracts with our manufacturers and they are not required to manufacture products for any specified period. We do not have internal manufacturing capabilities to meet our customers' demands. Qualifying a new contract manufacturer and commencing commercial scale production is expensive and time consuming and could result in a significant interruption in the supply of our products. If a change in contract manufacturers results in delays in our fulfillment of customer orders or if a contract manufacturer fails to make timely delivery of orders, we may lose revenues and suffer damage to our customer relationships.

***We and our contract manufacturers rely on single or limited sources for supply of some components of our products and if we fail to adequately predict our manufacturing requirements or if our supply of any of these components is disrupted, we will be unable to ship our products.***

We and our contract manufacturers currently purchase several key components of our products, including commercial digital signal processors, from single or limited sources. We purchase these components on a purchase order basis. If we overestimate our component requirements, we could have excess inventory, which would increase our costs. If we underestimate our requirements, we may not have an adequate supply, which could interrupt manufacturing of our products and result in delays in shipments and revenues.

We currently do not have long-term supply contracts with our component suppliers and they are not required to supply us with products for any specified periods, in any specified quantities or at any set price, except as may be specified in a particular purchase order. In the event of a disruption or

delay in supply, or inability to obtain products, we may not be able to develop an alternate source in a timely manner or at favorable prices, or at all. A failure to find acceptable alternative sources could hurt our ability to deliver high-quality products to our customers and negatively affect our operating margins. In addition, reliance on our suppliers exposes us to potential supplier production difficulties or quality variations. Our customers rely upon our ability to meet committed delivery dates, and any disruption in the supply of key components would seriously adversely affect our ability to meet these dates and could result in legal action by our customers, loss of customers or harm our ability to attract new customers.

***If we are not able to obtain necessary licenses of third-party technology at acceptable prices, or at all, our products could become obsolete.***

We have incorporated third-party licensed technology into our current products. From time to time, we may be required to license additional technology from third parties to develop new products or product enhancements. Third-party licenses may not be available or continue to be available to us on commercially reasonable terms. The inability to maintain or re-license any third-party licenses required in our current products or to obtain any new third-party licenses to develop new products and product enhancements could require us to obtain substitute technology of lower quality or performance standards or at greater cost, and delay or prevent us from making these products or enhancements, any of which could seriously harm the competitiveness of our products.

***Failures by our strategic partners or by us in integrating products provided by our strategic partners could seriously harm our business.***

Our solutions include the integration of products supplied by strategic partners, who offer complementary products and services. We rely on these strategic partners in the timely and successful deployment of our solutions to our customers. If the products provided by these partners have defects or do not operate as expected or if we do not effectively integrate and support products supplied by these strategic partners, then we may have difficulty with the deployment of our solutions that may result in:

- loss of, or delay in, revenues;
- increased service, support and warranty costs and a diversion of development resources; and
- network performance penalties.

In addition to cooperating with our strategic partners on specific customer projects, we also may compete in some areas with these same partners. If these strategic partners fail to perform or choose not to cooperate with us on certain projects, in addition to the effects described above, we could experience:

- loss of customers and market share; and
- a failure to attract new customers or achieve market acceptance for our products.

***Our ability to compete and our business could be jeopardized if we are unable to protect our intellectual property or become subject to intellectual property rights claims, which could require us to incur significant costs.***

We rely on a combination of patent, copyright, trademark and trade secret laws and restrictions on disclosure to protect our intellectual property rights. Despite our efforts to protect our proprietary rights, unauthorized parties may attempt to copy or otherwise obtain and use our products or technology. Monitoring unauthorized use of our products is difficult and we cannot be certain that the steps we have taken will prevent unauthorized use of our technology, particularly in foreign countries

where the laws may not protect our proprietary rights as fully as in the United States. If competitors are able to use our technology, our ability to compete effectively could be harmed.

In addition, we have received inquiries from other patent holders and may become subject to claims that we infringe their intellectual property rights. Any parties asserting that our products infringe upon their proprietary rights could force us to license their patents for substantial royalty payments or to defend ourselves and possibly our customers or contract manufacturers in litigation. These claims and any resulting licensing arrangement or lawsuit, if successful, could subject us to significant royalty payments or liability for damages and invalidation of our proprietary rights. Any potential intellectual property litigation also could force us to do one or more of the following:

- stop selling, incorporating or using our products that use the challenged intellectual property;
- obtain from the owner of the infringed intellectual property right a license to sell or use the relevant technology, which license may not be available on reasonable terms, or at all; or
- redesign those products that use any allegedly infringing technology.

Any lawsuits regarding intellectual property rights, regardless of their success, would be time-consuming, expensive to resolve and would divert our management's time and attention.

***Any investments or acquisitions we make could disrupt our business and seriously harm our financial condition.***

We intend to consider investing in, or acquiring, complementary products, technologies or businesses. In the event of future investments or acquisitions, we could:

- issue stock that would dilute our current stockholders' percentage ownership;
- incur debt or assume liabilities;
- incur significant impairment charges related to the write-off of goodwill and purchased intangible assets;
- incur significant amortization expenses related to purchased intangible assets; or
- incur large and immediate write-offs for in-process research and development and stock based compensation.

Our integration of any acquired products, technologies or businesses will also involve numerous risks, including:

- problems and unanticipated costs associated with combining the purchased products, technologies or businesses;
- diversion of management's attention from our core business;
- adverse effects on existing business relationships with suppliers and customers;
- risks associated with entering markets in which we have limited or no prior experience; and
- potential loss of key employees, particularly those of the acquired organizations.

We may be unable to successfully integrate any products, technologies, businesses or personnel that we might acquire in the future without significant costs or disruption to our business.



***Recent rulemaking by the Financial Accounting Standards Board will require us to expense equity compensation given to our employees and may significantly harm our operating results and may reduce our ability to effectively utilize equity compensation to attract and retain employees.***

We historically have used stock options as a significant component of our employee compensation program in order to align employees' interests with the interests of our stockholders, encourage employee retention, and provide competitive compensation packages. The Financial Accounting Standards Board has adopted changes that will require companies to record a charge to earnings for employee stock option grants and other equity incentives beginning July 1, 2005. By causing us to incur significantly increased compensation costs, such accounting changes will reduce our reported earnings and may cause us to reduce the availability and amount of equity incentives provided to employees, which may make it more difficult for us to attract, retain and motivate key personnel. Each of these results could materially and adversely affect our business.

***Regulation of the telecommunications industry could harm our operating results and future prospects.***

The telecommunications industry is highly regulated and our business and financial condition could be adversely affected by the changes in the regulations relating to the telecommunications industry. Currently, there are few laws or regulations that apply directly to access to or delivery of voice services on IP networks. We could be adversely affected by regulation of IP networks and commerce in any country, including the United States, where we operate. Such regulations could include matters such as voice over the Internet or using Internet protocol, encryption technology, and access charges for service providers. The adoption of such regulations could decrease demand for our products, and at the same time increase the cost of selling our products, which could have a material adverse effect on our business, operating result and financial condition.

***We may seek to raise additional capital in the future, which may not be available to us, and if it is available, may dilute the ownership of our common stock.***

In April and September 2003, we completed public offerings of 20,000,000 and 17,000,000 shares of our common stock resulting in the dilution of our existing investors' percentage ownership of our common stock. In the future, we may seek to raise additional funds through public or private debt or equity financings in order to:

- fund ongoing operations and capital requirements;
- take advantage of opportunities, including more rapid expansion or acquisition of complementary products, technologies or businesses;
- develop new products; or
- respond to competitive pressures.

Any additional capital raised through the sale of convertible debt or equity may further dilute an investor's percentage ownership of our common stock. Furthermore, additional financings may not be available on terms favorable to us, or at all. A failure to obtain additional funding could prevent us from making expenditures that may be required to grow or maintain our operations.

***Our stock price has been and may continue to be volatile.***

The market for technology stocks has been and will likely continue to be extremely volatile. The following factors could cause the market price of our common stock to fluctuate significantly:

- changes in our listing status on the Nasdaq Stock Market;
- the addition or loss of any major customer;

- consolidation in the telecommunications industry;
- changes in the financial condition or anticipated capital expenditure purchases of any existing or potential major customer;
- quarterly variations in our operating results;
- changes in financial estimates by securities analysts;
- speculation in the press or investment community;
- announcements by us or our competitors of significant contracts, new products or acquisitions, distribution partnerships, joint ventures or capital commitments;
- sales of common stock or other securities by us or by our stockholders in the future;
- securities and other litigation;
- announcement of a stock split, reverse stock split, stock dividend or similar event;
- economic conditions for the telecommunications, networking and related industries; and
- worldwide economic instability.

***Sales of a substantial amount of our common stock in the future could cause our stock price to fall.***

Some stockholders who acquired shares prior to our IPO or in connection with our acquisition of TTI hold a substantial number of shares of our common stock that have not yet been sold in the public market. Further, additional shares may become available for sale upon the conversion or redemption of our convertible subordinated note. Sales of a substantial number of shares of our common stock within a short period of time in the future could impair our ability to raise capital through the sale of additional debt or stock and/or cause our stock price to fall.

***Provisions of our charter documents and Delaware law may have anti-takeover effects that could prevent a change of control.***

Provisions of our amended and restated certificate of incorporation, our amended and restated by-laws and Delaware law could make it more difficult for a third party to acquire us, even if doing so would be beneficial to our stockholders.

**SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS**

This report contains forward-looking statements that involve substantial risks and uncertainties. In some cases you can identify these statements by forward-looking words such as "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "should," "will," and "would" or similar words. You should read statements that contain these words carefully because they discuss future expectations, contain projections of future results of operations or of financial position or state other "forward-looking" information. The important factors listed above in the section captioned "Risk Factors," as well as any cautionary language in this report, provide examples of risks, uncertainties and events that may cause the actual results to differ materially from the expectations described in these forward-looking statements. You should be aware that the occurrence of the events described in the risk factors and elsewhere in this report could have a material adverse effect on our business, results of operations and financial position.

Any forward-looking statements in this report are not guarantees of future performances, and actual results, developments and business decisions may differ from those anticipated by such forward-looking statements, possibly materially. We disclaim any duty to update any forward-looking statements, all of which are expressly qualified by the statements in this section.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

We do not currently use derivative financial instruments. We generally place our marketable security investments in high-quality credit instruments, primarily U.S. Government, state government obligations and corporate obligations with contractual maturities of less than one year. We do not expect any material loss from our marketable security investments and, therefore, believe that our potential interest rate exposure is not material. We have no current material exposure to foreign currency rate fluctuations, though we will continue to evaluate the impact of foreign currency exchange risk on our results of operations as we expand internationally.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Management's report on internal control over financial reporting is filed as part of this Annual Report on Form 10-K on page M-1, and the consolidated financial statements of Sonus Networks, Inc. are filed as a part of this Annual Report on Form 10-K beginning on page F-1.

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

Not applicable.

## ITEM 9A. CONTROLS AND PROCEDURES

Our management, with the participation of our principal executive officer and principal financial officer, has evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) under the Securities Exchange Act of 1934 (the Exchange Act)) as of December 31, 2004, which included an evaluation of disclosure controls and procedures applicable to the period covered by the filing of this periodic report. Based on this evaluation, and due to the material weaknesses in our internal control over financial reporting as described in our accompanying Management Report on Internal Control Over Financial Reporting, our disclosure controls and procedures were not effective as of December 31, 2004 to ensure that the information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the periods specified in the SEC's rules and forms.

In connection with our assessment of the effectiveness of our internal control over financial reporting as required under Section 404 of the Sarbanes-Oxley Act of 2002 and Item 308 of Regulation S-K, we identified and reported to our audit committee and auditors the following material weaknesses in our internal control over financial reporting, as they existed as of December 31, 2004. These material weaknesses include both entity-level control weaknesses as well as weaknesses in process, transaction and application controls as defined in the Committee of Sponsoring Organizations of the Treadway Commission (COSO) criteria. Among these material weaknesses are material weaknesses we had identified in connection with the restatement of our consolidated financial statements for the years ended December 31, 2001 and 2002 and for the first three quarters of 2003, as described in Amendment No. 1 to Form 10-K/A filed with the SEC on July 28, 2004.

Because of these material weaknesses, we concluded that as of December 31, 2004, our internal control over financial reporting was not effective based on the COSO control criteria. The nature of each of these material weaknesses is described below along with the actual or potential effects on our financial statements issued during the existence of the material weakness, and the remedial measures implemented by us to date, some of which will not in and of themselves remediate the material weaknesses and will require some time to be fully implemented or to take full effect.

**Inadequate entity level controls.** We do not have effective entity level controls as defined in the COSO framework. These weaknesses include (i) weaknesses in the control environment, including the

lack of uniform and consistent communication by all members of senior management regarding the importance of controls; lack of adequate controls over authorizations and approvals of transactions and expenditures; lack of effective segregation of duties; and lack of adequate resources in accounting, finance and information systems to ensure that recurring errors are appropriately addressed, (ii) weaknesses in the risk assessment controls, including the lack of adequate mechanisms for anticipating and identifying financial reporting risks; and for reacting to changes in the operating environment that could have a potential effect on financial reporting, (iii) weaknesses over control activities, including the lack of necessary policies and procedures; lack of information systems access and security controls; and lack of adequate controls to safeguard assets, including computer programs and data files, (iv) weaknesses over information and communication controls, including the lack of effective information systems and business processes required to support operations and reporting requirements; lack of adequate controls over changes to financial applications; and lack of adequate communication of employees' duties and control responsibilities, and (v) weaknesses in monitoring controls, including the lack of adequate staffing and procedures to ensure periodic evaluations of internal controls to ensure that appropriate personnel regularly obtain evidence that controls are functioning effectively and that identified control deficiencies are timely remedied. If we were not, or are not in future periods, successful in identifying these control weaknesses, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- Beginning in the third quarter of 2004, following the filing of our amended fiscal 2003 10-K/A and the identification of material weaknesses in our internal control over financial reporting, executive management has repeatedly and consistently emphasized the importance of systems and controls at its regular company-wide meetings and has been taking steps to eliminate our material weaknesses.
- Starting in 2005, our audit committee meetings will include a discussion on risk management controls and processes to manage business risk.
- To address the lack of adequate accounting and finance resources and lack of effective segregation of duties, and to improve the overall quality and level of experience in our finance and accounting organization, we hired a Chief Financial Officer in December of 2004; during 2004, we also hired a Vice President of Finance, Corporate Controller and Chief Accounting Officer, a Director of Accounting Operations, a Director of Internal Audit and a Director of International Finance (in the fourth quarter of 2004) as well as other personnel into our finance and accounting organization; and since December 31, 2003, we have added fifteen personnel to our accounting and finance department to take separate responsibility for revenue recognition, equity administration, general accounting and financial planning.
- We have completed the process of documenting and testing our internal control over financial reporting as required by Section 404 of the Sarbanes-Oxley Act of 2002 and Item 308 of Regulation S-K with the assistance of outside advisors.
- Beginning in the third quarter of 2004, as part of our close process, we began obtaining certifications from our sales force regarding the status of our customer arrangements.
- We have identified a list of key policies and procedures that we expect to create or revise, and we expect to ensure proper communication and training so that they are implemented effectively. Our policy development process has been formalized and aligned with the COSO framework.
- In the fourth quarter of 2004, we engaged an information systems controls consultant to assist us with developing and implementing policies and procedures to improve our information systems.
- We have established cross-functional teams to design changes to our operating business processes.

- Starting in 2005, we require annual certifications from our worldwide employee base of compliance with our code of conduct.
- In the first quarter of 2005, we implemented an annual ethics-training program for the worldwide employee base.
- In 2005, we implemented new security measures to restrict access to our headquarters facility.

***Inadequate business processes and information systems.*** Our business processes and information systems are not adequately designed or utilized to effectively support financial reporting requirements. As a result significant manual post-closing procedures, analysis and adjustments are required to accurately and completely publicly report our financial results. We do not have sufficient procedures that ensure these analyses are adequately prepared and reviewed prior to the underlying transactions being posted to the general ledger, which may result in inaccurate balances on the general ledger that are then adjusted. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current assets, decreasing current liabilities and increasing long-term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income. If we were not, or are not in future periods, successful in identifying these general ledger-posting adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- In the fourth quarter of 2004, we retained third parties to perform a review of our information systems, began to design a plan to enhance our information systems in a way that will improve our ability to account, capture, summarize and report our transactions, and purchased additional software to assist us in doing so.
- During the time that we are improving our information systems, we are conducting additional reviews and procedures in order to enhance the accuracy and completeness of data in manual records and analyses.

***Inadequate revenue recognition procedures and controls.*** We do not have adequate procedures and controls to ensure that a) all significant terms of our arrangements with customers are documented and understood to ensure that our revenue recognition criteria are satisfied, b) all undelivered elements have been delivered prior to revenue being recognized, and c) maintenance and service revenue is properly recorded in the correct period. As a result, revenue-related material post-closing adjustments have been posted to our books and records and our financial statements. These adjustments, which are reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing revenue, decreasing cost of revenues, increasing accounts receivable, increasing inventory, increasing deferred revenue and decreasing accrued expenses. If we were not, or are not in future periods, successful in identifying these revenue recognition adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- In the fourth quarter of 2004, we retained financial and accounting consultants with relevant industry experience to assist us in evaluating our customer arrangements and applying relevant revenue-recognition criteria.
- In the fourth quarter of 2004, we hired a sales operations director.
- In the fourth quarter of 2004, we hired a vice president to lead a bids and proposals group we established to add visibility, structure and consistency to proposals we make for major customer engagements.
- In the fourth quarter of 2004, we conducted training sessions for our sales and marketing, finance and professional services organizations regarding revenue recognition rules and best practices.

- In the fourth quarter of 2004, we continued to implement steps, including changes to our processes and systems, to improve the information flow among the various departments that have a role in the determination of proper revenue recognition

**Inadequate segregation of duties and information systems users.** We do not have adequate procedures and controls in place to ensure proper segregation of duties within the purchasing/payables, billing/collection, payroll and contract approval processes. Information systems end users may also have the ability to gain unauthorized or inappropriate access to our systems. As a result, misappropriation of assets and adjustments in the financial statements could occur and not be prevented or detected by our controls in a timely manner.

- In the fourth quarter of 2004, we made changes in our system access user profiles. In 2005, we conducted a review of roles and responsibilities and user access capabilities in the finance, accounting, purchasing and manufacturing organizations. We have identified certain areas requiring change and are in the process of implementing the changes.
- In 2005, we established a process requiring our human resources department to review and approve all payroll changes.

**Inadequate financial statement preparation and review procedures.** We do not have adequate procedures and controls to ensure that accurate financial statements can be prepared and reviewed on a timely basis, including insufficient a) levels of supporting documentation, b) review and supervision within the accounting and finance departments, c) underlying accurate data to ensure that balances are properly summarized and posted to the general ledger, d) analysis of reserves and accruals, including inventory reserves, warranty accruals and royalty accruals, and e) technical accounting resources. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current assets, decreasing current liabilities and increasing long-term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income. If we were not, or are not in future periods, successful in identifying these adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- We have begun to identify a list of key policies and procedures needed to improve our financial statement preparation and review process.
- We modified our quarterly financial review process to include formal planning and closing meetings each quarter chaired by our chief accounting officer and attended by a cross section of senior financial management and staff.
- We added to our review procedures on, and documentation of, our accounts, including the preparation of memoranda to support our significant judgments and estimates each quarter.
- To address insufficient technical accounting resources and to improve the overall quality and level of experience in our finance and accounting organization, we have recently hired a Chief Financial Officer (in December of 2004); during 2004, we also hired a Vice President of Finance, Corporate Controller and Chief Accounting Officer, a Director of Internal Audit and a Director of International Finance (in the fourth quarter of 2004) as well as other personnel into our finance and accounting organization; and since December 31, 2003, we have added fifteen personnel to our accounting and finance department to take separate responsibility for revenue recognition, equity administration, general accounting and financial planning.

**Inadequate controls over cash receipts.** We do not have appropriate segregation of responsibilities between custody and recording of cash receipts, or adequate controls to ensure that all invoices paid are timely recorded in our books and records. This could prevent us from recording cash receipts on

our accounts receivable accurately and timely. As a result, misappropriation of assets and material misstatements in our financial statements could occur and not be prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these cash receipt adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- In the fourth quarter of 2004, we made changes in our cash receipts processes to segregate the custody of cash receipts from the recording responsibilities. In 2005, we eliminated certain manual aspects of our billing procedures to enhance controls over cash receipts.

***Inadequate controls over equity transactions.*** We do not have adequate review and supervision controls or sufficient supporting documentation of equity-related reconciliations and analyses to ensure the proper monitoring of equity transactions. As a result, adjustments in the equity accounts and financial statements could occur.

- We have hired an accountant with equity related experience to focus on our equity transactions and reconciliations.
- We have established a Stock Compensation Committee to coordinate the efforts of our finance, legal and human resources departments in reviewing and addressing stock compensation issues and to assist and make recommendations to the compensation committee of our board of directors on stock compensation issues.

***Inadequate purchasing controls.*** We do not have adequate authorization controls and procedures, or proper segregation of duties in our purchasing processes. As a result, misappropriation of assets and material misstatements in our financial statements could occur and not be prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- During 2004, we implemented an automated procurement tool, which routes purchasing requests to appropriate levels of management for approval based on an authorization matrix.

***Inadequate controls over inventory and cost of revenues.*** We do not have adequate procedures and controls to ensure that cost of revenues transactions are accurately recorded in the correct period, that inventory reserves and valuation accounts are properly analyzed and that any resulting adjusting entries are accurately and timely recorded in our general ledger. As a result, material post-closing adjustments have been posted to our general ledger. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing cost of revenues, increasing net income and increasing inventory.

- During 2004, we hired a cost accountant who handles inventory accounting.
- During 2004, we implemented detailed analytical and review procedures designed to assess proper valuation of inventory.

***Inadequate information systems procedures and controls.*** We do not have adequate procedures and controls over our information systems control environment, including controls to ensure that changes to financial applications are properly authorized and tested and that access to our information systems and financial applications are appropriately restricted. Therefore, we are not able to place reliance on our information systems' application controls and the resulting data. As a result, financial statement accounts may contain errors that have not been prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

- In the fourth quarter of 2004, we have engaged an information systems controls consultant to assist us with developing and implementing policies and procedures to improve our information systems. A detailed work plan is in place and being managed to ensure that required controls will be implemented, monitored and tested. While our improved systems functionality is under development, we are conducting additional reviews and procedures intended to enhance the accuracy and completeness of data in manual sub-ledgers and analyses.
- In the fourth quarter of 2004, we updated our information systems user profiles to improve access controls.

During the fiscal quarter ended December 31, 2004, we have made changes, described above, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting (as defined in Rules 240.13a-15(f) and 240.15d-15(f) of the Exchange Act).

We continue to plan additional changes to our infrastructure and related processes that we believe are also reasonably likely to strengthen and materially affect our internal control over financial reporting, which we expect to implement including:

- To improve our entity level controls, we are focused on increasing the clarity and uniformity of communications by senior management of the importance of internal controls, establishing adequate mechanisms to anticipate and identify financial reporting risks, establishing further controls over authorizations and approvals of transactions and expenditures, and addressing any remaining needs for staffing and segregation of duties in accounting, finance and information systems. As part of doing so, we are continuing to revise or create, as the case may be, policies and procedures for key business processes and functions and establishing proper systems access and controls. We also expect to develop and conduct a controls awareness-training program for all employees as well as to conduct annually ethics training for, and obtain code of conduct certificates of compliance from, all employees to improve our controls environment. We expect to utilize our internal audit function to conduct periodic evaluations of whether internal controls are functioning effectively.
- To improve our business processes and information systems, we are focused on completing the design and implementation of a plan to enhance our information systems to assist us with capturing, summarizing and reporting our transactions. We expect this will include additional enhancements to our information systems.
- To improve our revenue recognition procedures, we are focused on continuing to implement processes to improve communication among our various functional groups, which include sales, manufacturing, customer support, engineering, accounting, and legal, during the contract negotiation, implementation and fulfillment phases. We expect that through improved communications all significant terms of our arrangements with customers will be documented and understood by the individuals necessary to ensure that our revenue recognition criteria are satisfied, all undelivered elements will be delivered prior to revenue being recognized, and maintenance and service revenue will be properly recorded in the correct period.
- We are focused on continuing to make changes as needed to ensure proper segregation of duties. We also expect to continue with the implementation of the changes we began in the fourth quarter of 2004 to tie user access to our information systems to user needs based upon the roles and responsibilities of the user.
- To improve our financial statement preparation and review procedures, we are focused on assessing the adequacy of key policies and procedures needed to ensure that accurate financial statements can be prepared and reviewed on a timely basis, and implementing the most critical key policies and procedures. We also expect to be implementing a report-writer that will enable us to produce timely supporting analyses for our financial statement accounts. We expect to



continue to assess our accounting, finance and information systems resource requirements and recruit additional technical resources as required.

- To further improve our controls over cash receipts we are focused on making additional changes as we may deem necessary.
- We are focused on further documenting, testing and monitoring the equity transactions procedures and controls that we implemented in the third quarter of 2004 to determine if they are operating effectively and, if warranted, implement additional procedures.
- To improve our purchasing controls, we are focused on expanding the use of our automated procurement tool to cover all our purchasing activities to ensure that the appropriate levels of management approval have been obtained.
- To improve our controls and procedures over inventory and cost of sale transactions, we are focused on the implementation of systems-based solutions to ensure that transactions are accurately recorded in the correct period and that inventory is properly valued.
- To improve our information systems procedures and controls, we are focused on evaluating necessary changes and implementing the policies and procedures required to ensure that changes to financial applications are properly authorized and tested and that access to our information systems and financial applications are appropriately restricted.

Prior to the remediation of these material weaknesses, there remains risk that the transitional controls, described below, on which we currently rely will fail to be sufficiently effective, which could result in material misstatement of our financial position or results of operations and require a restatement.

We currently are designing and implementing a new controls environment intended to address the material weaknesses described above in our internal control over financial reporting and to remedy the ineffectiveness of our disclosure controls and procedures. While this design and implementation phase is underway, we are relying on extensive manual procedures, including regular reviews and the significant utilization of outside accounting professionals, to assist us with meeting the objectives otherwise fulfilled by an effective controls environment. We expect to establish and implement a policy-based system of controls. While we are undertaking the design and implementation of our controls environment, there remains risk that the transitional controls on which we are currently relying will fail to be sufficiently effective. We also note, however, that a control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must include an assessment of the costs and related risks associated with the control and the purpose for which it was intended. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues including instances of fraud, if any, have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, our control systems, as we develop them, may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected and could be material and require a restatement of our financial statements.

The certifications of our principal executive officer and principal financial officer required in accordance with Section 302 of the Sarbanes-Oxley Act of 2002 are attached as exhibits to this Annual

Report on Form 10-K. The disclosures set forth in this Item 9A contain information concerning (i) the evaluation of our disclosure controls and procedures, and changes in internal control over financial reporting, referred to in paragraph 4 of the certifications, and (ii) material weaknesses in the design or operation of our internal control over financial reporting, referred to in paragraph 5 of the certifications. Those certifications should be read in conjunction with this Item 9A for a more complete understanding of the matters covered by the certifications.

**ITEM 9B. OTHER INFORMATION**

None.

## PART III

### **ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT.**

A portion of the information required by this Item 10 is included in Part I of this Annual Report on Form 10-K under the caption "Executive Officers of the Registrant" and is incorporated herein by reference. The remaining information required by this Item 10 is included under the captions "Election of Directors," "Section 16(a) Beneficial Ownership Reporting Compliance," "Code of Business Conduct and Ethics" and "Board Meetings and Committees" in our definitive Proxy Statement with respect to our 2005 Annual Meeting of Shareholders to be filed with the SEC not later than 120 days after the end of the fiscal year and is incorporated herein by reference.

### **ITEM 11. EXECUTIVE COMPENSATION.**

The information required by this Item 11 is included under the captions "Director Compensation," "Summary of Executive Compensation and Related Information" and "Compensation Committee Interlocks and Insider Participation" in our definitive Proxy Statement with respect to our 2005 Annual Meeting of Shareholders to be filed with the SEC not later than 120 days after the end of the fiscal year and is incorporated herein by reference.

### **ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS.**

The information required by this Item 12 is included under the captions "Beneficial Ownership of Securities" and "Equity Compensation Plan Information" in our definitive Proxy Statement with respect to our 2005 Annual Meeting of Shareholders to be filed with the SEC not later than 120 days after the end of the fiscal year and is incorporated herein by reference.

### **ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS.**

The information required by this Item 13 is included, as applicable, under the captions "Employment Agreement" and "Indemnification Agreements" in our definitive Proxy Statement with respect to our 2005 Annual Meeting of Shareholders to be filed with the SEC not later than 120 days after the end of the fiscal year and is incorporated herein by reference.

### **ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES.**

The information required by this Item 14 is included under the captions "Fees for Independent Auditors during Fiscal Years Ended December 31, 2004 and 2003" and "Policy on Audit Committee Pre-approval of Audit and Non-audit Services" in our definitive Proxy Statement with respect to our 2005 Annual Meeting of Shareholders to be filed with the SEC not later than 120 days after the end of the fiscal year and is incorporated herein by reference.

**ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES.**

**Documents filed as part of this Annual Report on Form 10-K:**

**1) Financial Statements.**

The following consolidated financial statements and notes thereto are included in Part II, Item 8 filed as part of this report:

- Reports of Independent Registered Public Accounting Firm
- Consolidated Balance Sheets
- Consolidated Statements of Operations
- Consolidated Statements of Stockholders' Equity
- Consolidated Statements of Cash Flows
- Notes to Consolidated Financial Statements

**2) Financial Statement Schedules.**

None. All schedules are omitted because they are inapplicable, not required under the instructions or because the information is reflected in the consolidated financial statements or notes thereto.

**3) List of Exhibits.**

The Exhibits filed as part of this Annual Report on Form 10-K are listed in the Exhibit Index immediately preceding such Exhibits, which Exhibit Index is incorporated herein by reference.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, in the Town of Chelmsford, Commonwealth of Massachusetts, on this 15th day of March, 2005.

SONUS NETWORKS, INC.

By: /s/ HASSAN M. AHMED

Hassan M. Ahmed  
*Chairman of the Board of Directors and Chief Executive Officer*

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:

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ HASSAN M. AHMED</u> Hassan M. Ahmed	Chairman of the Board of Directors and Chief Executive Officer (Principal Executive Officer)	March 15, 2005
<u>/s/ ELLEN B. RICHSTONE</u> Ellen B. Richstone	Chief Financial Officer (Principal Financial Officer)	March 15, 2005
<u>/s/ BRADLEY T. MILLER</u> Bradley T. Miller	Vice President of Finance, Corporate Controller and Chief Accounting Officer (Principal Accounting Officer)	March 15, 2005
<u>/s/ ALBERT A. NOTINI</u> Albert A. Notini	President and Chief Operating Officer, and Director	March 15, 2005
<u>/s/ EDWARD T. ANDERSON</u> Edward T. Anderson	Director	March 15, 2005
<u>/s/ JOHN P. CUNNINGHAM</u> John P. Cunningham	Director	March 15, 2005
<u>/s/ PAUL J. FERRI</u> Paul J. Ferri	Director	March 15, 2005
<u>/s/ RUBIN GRUBER</u> Rubin Gruber	Director	March 15, 2005
<u>/s/ PAUL J. SEVERINO</u> Paul J. Severino	Director	March 15, 2005
<u>/s/ H. BRIAN THOMPSON</u> H. Brian Thompson	Director	March 15, 2005

## Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2004 based on the framework in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

Based on our assessment, we identified the following material weaknesses in our internal control over financial reporting as of December 31, 2004. As defined in the COSO framework, these material weaknesses include both entity-level control weaknesses as well as weaknesses in process, transaction and application controls. The nature of each of these material weaknesses in our internal control over financial reporting is described below along with the actual or potential effects on our financial statements issued during the existence of the material weakness.

**1. Inadequate entity-level controls.** We do not have effective entity level controls as defined in the COSO framework. These weaknesses include the following:

- Weaknesses in the control environment, including the lack of uniform and consistent communication by all members of senior management regarding the importance of controls; lack of adequate controls over authorizations and approvals of transactions and expenditures; lack of effective segregation of duties; and lack of adequate resources in accounting, finance and information systems to ensure that recurring errors are appropriately addressed.
- Weaknesses in the risk assessment controls, including the lack of adequate mechanisms for anticipating and identifying financial reporting risks; and for reacting to changes in the operating environment that could have a potential effect on financial reporting.
- Weaknesses over control activities including, the lack of necessary policies and procedures; lack of information systems access and security controls; and lack of adequate controls to safeguard assets, including computer programs and data files.
- Weaknesses over information and communication controls, including the lack of effective information systems and business processes required to support operations and reporting requirements; lack of adequate controls over changes to financial applications; and lack of adequate communication of employees' duties and control responsibilities.
- Weaknesses in monitoring controls including, the lack of adequate staffing and procedures to ensure periodic evaluations of internal controls to ensure that appropriate personnel regularly obtain evidence that controls are functioning effectively and that identified control deficiencies are timely remedied.

If we were not, or are not in future periods, successful in identifying these control weaknesses, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**2. Inadequate business processes and information systems.** Our business processes and information systems are not adequately designed or utilized to effectively support financial reporting requirements. As a result significant manual post-closing procedures, analysis and adjustments are required to accurately and completely publicly report our financial results. We do not have sufficient procedures that ensure these analyses are adequately prepared and reviewed prior to the underlying transactions being posted to the general ledger, which may result in inaccurate balances on the general ledger that are then adjusted. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current

assets, decreasing current liabilities and increasing long term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income. If we were not, or are not in future periods, successful in identifying these general ledger-posting adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**3. Inadequate revenue recognition procedures and controls.** We do not have adequate procedures and controls to ensure that a) all significant terms of our arrangements with customers are documented and understood to ensure that our revenue recognition criteria are satisfied, b) all undelivered elements have been delivered prior to revenue being recognized, and c) maintenance and service revenue is properly recorded in the correct period. As a result, revenue-related material post-closing adjustments have been posted to our books and records and our financial statements. These adjustments, which are reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing revenue, decreasing cost of revenues, increasing accounts receivable, increasing inventory, increasing deferred revenue and decreasing accrued expenses. If we were not, or are not in future periods, successful in identifying these revenue recognition adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**4. Inadequate segregation of duties and information systems users.** We do not have adequate procedures and controls in place to ensure proper segregation of duties within the purchasing/payables, billing/collection, payroll and contract approval processes. Information systems end users may also have the ability to gain unauthorized or inappropriate access to our systems. As a result, misappropriation of assets and adjustments in the financial statements could occur and not be prevented or detected by our controls in a timely manner.

**5. Inadequate financial statement preparation and review procedures.** We do not have adequate procedures and controls to ensure that accurate financial statements can be prepared and reviewed on a timely basis, including insufficient a) levels of supporting documentation, b) review and supervision within the accounting and finance departments, c) underlying accurate data to ensure that balances are properly summarized and posted to the general ledger, d) analysis of reserves and accruals, including inventory reserves, warranty accruals and royalty accruals, and e) technical accounting resources. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current assets, decreasing current liabilities and increasing long term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income. If we were not, or are not in future periods, successful in identifying these adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**6. Inadequate controls over cash receipts.** We do not have appropriate segregation of responsibilities between custody and recording of cash receipts, or adequate controls to ensure that all invoices paid are timely recorded in our books and records. This could prevent us from recording cash receipts on our accounts receivable accurately and timely. As a result, misappropriation of assets and material misstatements in our financial statements could occur and not be prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these cash receipt adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**7. Inadequate controls over equity transactions.** We do not have adequate review and supervision controls or sufficient supporting documentation of equity-related reconciliations and analyses to ensure the proper monitoring of equity transactions. As a result, adjustments in the equity accounts and financial statements could occur.

**8. Inadequate purchasing controls.** We do not have adequate authorization controls and procedures, or proper segregation of duties in our purchasing processes. As a result, misappropriation of assets and material misstatements in our financial statements could occur and not be prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

**9. Inadequate controls over inventory and cost of revenues.** We do not have adequate procedures and controls to ensure that cost of revenues transactions are accurately recorded in the correct period, that inventory reserves and valuation accounts are properly analyzed and that any resulting adjusting entries are accurately and timely recorded in our general ledger. As a result, material post-closing adjustments have been posted to our general ledger. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing cost of revenues, increasing net income and increasing inventory.

**10. Inadequate information systems procedures and controls.** We do not have adequate procedures and controls over our information systems control environment, including controls to ensure that changes to financial applications are properly authorized and tested and that access to our information systems and financial applications are appropriately restricted. Therefore, we are not able to place reliance on our information systems' application controls and the resulting data. As a result, financial statement accounts may contain errors that have not been prevented or detected by our controls in a timely manner. If we were not, or are not in future periods, successful in identifying these adjustments, our quarterly or annual financial statements could be materially misstated, which could require a restatement.

Because of the material weakness described above, management concluded that, as of December 31, 2004, our internal control over financial reporting was not effective based on the COSO criteria.

Management's assessment of the effectiveness of our internal control over financial reporting as of December 31, 2004 has been audited by Ernst & Young LLP, an independent registered public accounting firm, as stated in their report, which is included on page F-3 of this Annual Report on Form 10-K.



SONUS NETWORKS, INC.

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

	<u>Page</u>
Reports of Independent Registered Public Accounting Firm—Ernst & Young LLP	F-2
Consolidated Balance Sheets	F-6
Consolidated Statements of Operations	F-7
Consolidated Statements of Stockholders' Equity	F-8
Consolidated Statements of Cash Flows	F-9
Notes to Consolidated Financial Statements	F-10

## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of  
Sonus Networks, Inc.:

We have audited the accompanying consolidated balance sheets of Sonus Networks, Inc. and subsidiaries as of December 31, 2004 and 2003 and the related consolidated statements of operations, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2004. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of Sonus Networks, Inc. and subsidiaries as of December 31, 2004 and 2003, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2004, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the effectiveness of Sonus Networks, Inc.'s internal control over financial reporting as of December 31, 2004, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission, and our report dated March 14, 2005 expressed an unqualified opinion on management's assessment and an adverse opinion on the effectiveness of internal control over financial reporting.

/s/ Ernst & Young LLP

Boston, Massachusetts  
March 14, 2005

## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of  
Sonus Networks, Inc.:

We have audited management's assessment, included in the accompanying Management's Report on Internal Control over Financial Reporting, that Sonus Networks, Inc. and subsidiaries (the "Company") did not maintain effective internal control over financial reporting as of December 31, 2004, because of the effect of the ten material weaknesses identified in management's assessment, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (the COSO criteria). Sonus Networks, Inc.'s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting. Our responsibility is to express an opinion on management's assessment and an opinion on the effectiveness of the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, evaluating management's assessment, testing and evaluating the design and operating effectiveness of internal control, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

A material weakness is a control deficiency, or combination of control deficiencies, that results in more than a remote likelihood that a material misstatement of the annual or interim financial statements will not be prevented or detected. The following ten material weaknesses have been identified and included in management's assessment:

1. ***Inadequate entity-level controls.*** The Company does not have effective entity level controls as defined in the COSO framework. These weaknesses include the following:
  - Weaknesses in the control environment, including the lack of uniform and consistent communication by all members of senior management regarding the importance of controls; lack of adequate controls over authorizations and approvals of transactions and expenditures; lack of effective segregation of duties; and lack of adequate resources in accounting, finance and information systems to ensure that recurring errors are appropriately addressed.

- Weaknesses in the risk assessment controls, including the lack of adequate mechanisms for anticipating and identifying financial reporting risks; and for reacting to changes in the operating environment that could have a potential effect on financial reporting.
- Weaknesses over control activities, including the lack of necessary policies and procedures; lack of information systems access and security controls; and lack of adequate controls to safeguard assets, including computer programs and data files.
- Weaknesses over information and communication controls, including the lack of effective information systems and business processes required to support operations and reporting requirements; lack of adequate controls over changes to financial applications; and lack of adequate communication of employees' duties and control responsibilities.
- Weaknesses in monitoring controls, including the lack of adequate staffing and procedures to ensure periodic evaluations of internal controls to ensure that appropriate personnel regularly obtain evidence that controls are functioning effectively and that identified control deficiencies are timely remedied.

2. ***Inadequate business processes and information systems.*** The Company's business processes and information systems are not adequately designed or utilized to effectively support financial reporting requirements. Significant manual post-closing procedures, analysis and adjustments are required to accurately and completely publicly report financial results. The Company does not have sufficient procedures to ensure these analyses are adequately prepared and reviewed prior to the underlying transactions being posted to the general ledger, which may result in inaccurate balances on the general ledger that are then adjusted. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current assets, decreasing current liabilities and increasing long term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income.
3. ***Inadequate revenue recognition procedures and controls.*** The Company does not have adequate procedures and controls to ensure that a) all significant terms of its arrangements with customers are documented and understood to ensure that revenue recognition criteria are satisfied, b) all undelivered elements have been delivered prior to revenue being recognized, and c) maintenance and service revenue is properly recorded in the correct period. As a result, revenue-related material post-closing adjustments have been posted to its books and records and its financial statements. These adjustments, which are reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing revenue, decreasing cost of revenues, increasing accounts receivable, increasing inventory, increasing deferred revenue and decreasing accrued expenses.
4. ***Inadequate segregation of duties and information systems users.*** The Company does not have adequate procedures and controls in place to ensure proper segregation of duties within the purchasing/payables, billing/collection, payroll and contract approval processes. Information systems end users may also have the ability to gain unauthorized or inappropriate access to its systems. As a result, misappropriation of assets and adjustments in the financial statements could occur and not be prevented or detected by the Company's controls in a timely manner.
5. ***Inadequate financial statement preparation and review procedures.*** The Company does not have adequate procedures and controls to ensure that accurate financial statements can be prepared and reviewed on a timely basis, including insufficient a) levels of supporting documentation, b) review and supervision within the accounting and finance departments, c) underlying accurate data to ensure that balances are properly summarized and posted to the general ledger, d) analysis of reserves and accruals, including inventory reserves, warranty accruals and royalty accruals, and e) technical accounting resources. Post-closing adjustments reflected in the accompanying financial

statements for the year ended December 31, 2004, had the effect of increasing current assets, increasing non-current assets, decreasing current liabilities and increasing long term deferred revenue. In addition, they had the effect of decreasing revenue, decreasing cost of revenues, decreasing operating expenses and decreasing net income.

6. **Inadequate controls over cash receipts.** The Company does not have appropriate segregation of responsibilities between custody and recording of cash receipts, or adequate controls to ensure that all invoices paid are timely recorded in its books and records. This could prevent the Company from recording cash receipts on its accounts receivable, accurately and timely. As a result, misappropriation of assets and material misstatements in its financial statements could occur and not be prevented or detected by the Company's controls in a timely manner.
7. **Inadequate controls over equity transactions.** The Company does not have adequate review and supervision controls or sufficient supporting documentation of equity-related reconciliations and analyses to ensure the proper monitoring of equity transactions. As a result, adjustments in the equity accounts and financial statements could occur.
8. **Inadequate purchasing controls.** The Company does not have adequate authorization controls and procedures, or proper segregation of duties in its purchasing processes. As a result, misappropriation of assets and material misstatements in its financial statements could occur and not be prevented or detected by the Company's controls in a timely manner.
9. **Inadequate controls over inventory and cost of revenues.** The Company does not have adequate procedures and controls to ensure that cost of revenues transactions are accurately recorded in the correct period, that inventory reserves and valuation accounts are properly analyzed and that any resulting adjusting entries are accurately and timely recorded in its general ledger. As a result, material post-closing adjustments have been posted to its general ledger. Post-closing adjustments reflected in the accompanying financial statements for the year ended December 31, 2004, had the effect of decreasing cost of revenues, increasing net income and increasing inventory.
10. **Inadequate information systems procedures and controls.** The Company does not have adequate procedures and controls over its information systems control environment, including controls to ensure that changes to financial applications are properly authorized and tested and that access to its information systems and financial applications are appropriately restricted. Therefore, the Company is not able to place reliance on its information systems' application controls and the resulting data. As a result, financial statement accounts may contain errors that have not been prevented or detected by the Company's controls in a timely manner.

These material weaknesses were considered in determining the nature, timing, and extent of audit tests applied in our audit of the December 31, 2004 financial statements, and this report does not affect our report dated March 14, 2005 on those financial statements.

In our opinion, management's assessment that Sonus Networks, Inc. did not maintain effective internal control over financial reporting as of December 31, 2004, is fairly stated, in all material respects, based on the COSO control criteria. Also, in our opinion, because of the effect of the material weaknesses described above on the achievement of the objectives of the control criteria, Sonus Networks, Inc. has not maintained effective internal control over financial reporting as of December 31, 2004, based on the COSO control criteria.

/s/ Ernst & Young LLP

Boston, Massachusetts  
March 14, 2005

## SONUS NETWORKS, INC.

## Consolidated Balance Sheets

(In thousands, except share data)

	December 31,	
	2004	2003
<b>Assets</b>		
<b>Current assets:</b>		
Cash and cash equivalents	\$ 121,931	\$ 133,715
Marketable securities	170,145	171,677
Accounts receivable, net	32,486	23,754
Inventory, net	28,346	13,739
Other current assets	10,891	6,935
Total current assets	363,799	349,820
Property and equipment, net	8,217	5,009
Purchased intangible assets, net	—	2,402
Long-term investments	21,029	—
Other assets	783	1,193
	\$ 393,828	\$ 358,424
<b>Liabilities and Stockholders' Equity</b>		
<b>Current liabilities:</b>		
Accounts payable	\$ 8,654	\$ 3,248
Accrued expenses	18,240	22,165
Accrued restructuring expenses	186	565
Current portion of deferred revenue	65,105	62,698
Current portion of long-term liabilities	30	182
Total current liabilities	92,215	88,858
Long-term deferred revenue, net of current portion	25,960	24,302
Long-term liabilities, net of current portion	613	829
Convertible subordinated note	10,000	10,000
Commitments and contingencies (Note 9)		
<b>Stockholders' equity:</b>		
Preferred stock, \$0.01 par value; 5,000,000 shares authorized, none issued and outstanding	—	—
Common stock, \$0.001 par value; 600,000,000 shares authorized, 249,755,118 and 247,146,477 shares issued and 247,458,208 and 244,849,567 shares outstanding at December 31, 2004 and 2003	250	247
Capital in excess of par value	1,049,142	1,043,581
Accumulated deficit	(784,085)	(808,562)
Deferred compensation	—	(564)
Treasury stock, at cost; 2,296,910 common shares at December 31, 2004 and 2003	(267)	(267)
Total stockholders' equity	265,040	234,435
	\$ 393,828	\$ 358,424

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

## SONUS NETWORKS, INC.

## Consolidated Statements of Operations

(In thousands, except per share data)

	Year ended December 31,		
	2004	2003	2002
<b>Revenues:</b>			
Product	\$ 124,087	\$ 60,851	\$ 68,572
Service	46,651	32,359	25,345
Total revenues	170,738	93,210	93,917
<b>Cost of revenues(1):</b>			
Write-off of inventory and purchase commitments	—	—	6,130
Product	32,911	23,575	33,573
Service	17,656	14,334	11,873
Total cost of revenues	50,567	37,909	51,576
<b>Gross profit</b>	120,171	55,301	42,341
<b>Operating expenses:</b>			
Research and development(1)	36,174	32,190	44,591
Sales and marketing(1)	34,969	23,169	27,786
General and administrative(1)	24,595	10,475	5,248
Stock-based compensation	671	3,418	16,871
Amortization of goodwill and purchased intangible assets	2,402	2,408	4,229
Write-off of goodwill and purchased intangible assets	—	—	10,950
Restructuring charges	—	—	7,739
Total operating expenses	98,811	71,660	117,414
<b>Income (loss) from operations</b>	21,360	(16,359)	(75,073)
Interest expense	(479)	(610)	(676)
Interest income	4,283	2,135	1,994
<b>Income (loss) before income taxes</b>	25,164	(14,834)	(73,755)
Provision for income taxes	687	302	86
<b>Net income (loss)</b>	\$ 24,477	\$ (15,136)	\$ (73,841)
<b>Net income (loss) per share:</b>			
Basic	\$ 0.10	\$ (0.07)	\$ (0.39)
Diluted	\$ 0.10	\$ (0.07)	\$ (0.39)
<b>Shares used in computing net income (loss) per share:</b>			
Basic	245,830	220,696	191,008
Diluted	253,816	220,696	191,008

(1) Excludes non-cash, stock-based compensation expense as follows:

Cost of revenues	\$ 18	\$ 45	\$ 235
Research and development	240	1,180	8,930
Sales and marketing	311	1,542	4,941
General and administrative	102	651	2,765
	\$ 671	\$ 3,418	\$ 16,871

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

SONUS NETWORKS, INC.

Consolidated Statements of Stockholders' Equity

	Common Stock				Treasury Stock		Total Stockholders' Equity	
	Shares	Par Value	Capital in Excess of Par Value	Accumulated Deficit	Deferred Compensation	Shares		Cost
<b>Balance, December 31, 2001</b>	205,191,210	\$ 205	\$ 859,105	\$ (719,585)	\$ (29,075)	1,013,750	\$ (84)	\$ 110,566
Issuance of common stock in connection with employee stock purchase plan	1,199,247	2	2,841	—	—	—	—	2,843
Exercise of stock options	475,901	—	159	—	—	—	—	159
Amortization of deferred compensation	—	—	—	—	21,607	—	—	21,607
Compensation expense related to modifications of stock awards	—	—	190	—	—	—	—	190
Deferred compensation for terminated employees	—	—	(8,735)	—	3,809	—	—	(4,926)
Repurchase of common stock	—	—	—	—	—	1,253,060	(177)	(177)
Net loss	—	—	—	(73,841)	—	—	—	(73,841)
<b>Balance, December 31, 2002</b>	206,866,358	207	853,560	(793,426)	(3,659)	2,266,810	(261)	56,421
Sale of common stock, net of issuance costs of \$9,932	37,000,000	37	182,781	—	—	—	—	182,818
Issuance of common stock in connection with employee stock purchase plan	1,085,750	1	965	—	—	—	—	966
Exercise of stock options	2,194,369	2	5,952	—	—	—	—	5,954
Amortization of deferred compensation	—	—	—	—	3,039	—	—	3,039
Deferred compensation for terminated employees	—	—	(285)	—	56	—	—	(229)
Compensation expense related to issuance of common stock options to non-employees and modifications of stock awards	—	—	608	—	—	—	—	608
Repurchase of common stock	—	—	—	—	—	30,100	(6)	(6)
Net loss	—	—	—	(15,136)	—	—	—	(15,136)
<b>Balance, December 31, 2003</b>	247,146,477	247	1,043,581	(808,562)	(564)	2,296,910	(267)	234,435
Issuance of common stock in connection with employee stock purchase plan	1,384,356	2	1,719	—	—	—	—	1,721
Exercise of stock options	1,224,285	1	3,668	—	—	—	—	3,669
Amortization of deferred compensation	—	—	—	—	564	—	—	564
Compensation expense related to modifications of stock awards	—	—	107	—	—	—	—	107
Tax benefit from stock options exercised	—	—	67	—	—	—	—	67
Net income	—	—	—	24,477	—	—	—	24,477
<b>Balance, December 31, 2004</b>	249,755,118	\$ 250	\$ 1,049,142	\$ (784,085)	\$ —	2,296,910	\$ (267)	\$ 265,040

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



## SONUS NETWORKS, INC.

## Consolidated Statements of Cash Flows

(In thousands)

	Year ended December 31,		
	2004	2003	2002
<b>Cash flows from operating activities:</b>			
Net income (loss)	\$ 24,477	\$ (15,136)	\$ (73,841)
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:			
Depreciation	5,796	9,724	15,415
Tax benefit from stock options exercised	67	—	—
Write-off of inventory	—	—	6,130
Stock-based compensation	671	3,418	16,871
Amortization of goodwill and purchased intangible assets	2,402	2,408	4,229
Write-off of goodwill and purchased intangible assets	—	—	10,950
Changes in current assets and liabilities:			
Accounts receivable	(8,732)	(19,132)	6,059
Inventory	(14,607)	(3,290)	19,853
Other current assets	(3,956)	(3,419)	2,792
Accounts payable	5,406	(377)	(8,646)
Accrued expenses	(4,490)	3,381	(7,657)
Deferred revenue	4,065	27,248	(649)
Net cash provided by (used in) operating activities	11,099	4,825	(8,494)
<b>Cash flows from investing activities:</b>			
Net purchases of property and equipment	(9,004)	(3,187)	(3,418)
Maturities of marketable securities	162,547	19,538	58,524
Purchases of marketable securities	(182,044)	(130,355)	(43,440)
Other assets	410	(757)	(66)
Net cash (used in) provided by investing activities	(28,091)	(114,761)	11,600
<b>Cash flows from financing activities:</b>			
Net proceeds from sale of common stock to public	—	182,818	—
Sale of common stock in connection with employee stock purchase plan	1,721	966	2,843
Proceeds from exercise of stock options	3,669	5,954	159
Additions to long-term liabilities	—	—	3,300
Payments of long-term liabilities	(182)	(3,359)	(1,022)
Repurchase of common stock	—	(6)	(177)
Net cash provided by financing activities	5,208	186,373	5,103
<b>Net (decrease) increase in cash and cash equivalents</b>	<b>(11,784)</b>	<b>76,437</b>	<b>8,209</b>
<b>Cash and cash equivalents, beginning of year</b>	<b>133,715</b>	<b>57,278</b>	<b>49,069</b>
<b>Cash and cash equivalents, end of year</b>	<b>\$ 121,931</b>	<b>\$ 133,715</b>	<b>\$ 57,278</b>
<b>Supplemental disclosure of cash flow information:</b>			
Cash paid for interest expense	\$ 479	\$ 610	\$ 676
Cash paid for taxes	\$ 441	\$ 91	\$ 63

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

**Notes to Consolidated Financial Statements****(1) Operations and Significant Accounting Policies**

Sonus Networks, Inc. (Sonus) was incorporated on August 7, 1997 and is a leading provider of voice infrastructure solutions for wireline and wireless service providers. Sonus offers a new generation of carrier-class switching equipment and software that enable voice services to be delivered over packet-based networks.

The accompanying consolidated financial statements reflect the application of certain significant accounting policies as described in this note and elsewhere in the accompanying consolidated financial statements and notes.

**(a) Principles of Consolidation**

The accompanying consolidated financial statements include the accounts of Sonus and its wholly owned subsidiaries. All material intercompany transactions and balances have been eliminated.

**(b) Use of Estimates and Judgments**

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 date of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Significant estimates and judgments relied upon in preparing these financial statements include revenue recognition for multiple element arrangements, allowances for doubtful accounts, estimated fair value of investments, inventory reserves, expected future cash flows used to evaluate the recoverability of long-lived assets, estimated fair values of long-lived assets used to record impairment charges related to intangible assets and goodwill, restructuring and other related charges, contingencies associated with revenue contracts, contingent liabilities, and recoverability of Sonus' net deferred tax assets and related valuation allowance. Although Sonus regularly assesses these estimates, actual results could differ materially from these estimates. Changes in estimates are recorded in the period in which they become known. Sonus bases its estimates on historical experience and various other assumptions that it believes to be reasonable under the circumstances. Actual results may differ from Sonus' estimates if past experience or other assumptions do not turn out to be substantially accurate.

**(c) Cash Equivalents, Marketable Securities and Long-Term Investments**

Cash equivalents are stated at cost plus accrued interest, which approximates market value, and have maturities of three months or less at the date of purchase.

Marketable securities are classified as held-to-maturity, as Sonus has the intent and ability to hold to maturity. Marketable securities are reported at amortized cost. Cash equivalents and marketable securities are invested in high quality credit instruments, primarily U.S. Government, municipal and corporate obligations with remaining contractual maturities of less than one year. There have been no material gains or losses to date.

Long-term investments consist of high-quality credit instruments, primarily U.S. Government and corporate obligations with remaining maturities of greater than one year as of the balance sheet date.

#### (d) Concentrations of Credit and Off-Balance Sheet Risk, Significant Customers and Limited Suppliers

The financial instruments that potentially subject Sonus to concentrations of credit risk are cash, cash equivalents, marketable securities, accounts receivable and long-term investments. Sonus has no off-balance sheet contracts such as foreign exchange contracts, options contracts or other foreign hedging arrangements. Sonus' cash and cash equivalent holdings are diversified among four financial institutions.

For the years ended December 31, 2004, 2003 and 2002, two and four customers and one customer, each of whom contributed more than 10% of revenues, accounted for an aggregate of 29%, 57% and 42% of revenues. The following customers contributed 10% or more of Sonus' revenues in the years ended December 31, 2004, 2003 and 2002:

Customer	2004	2003	2002
Qwest Communications	17%	18%	42%
Verizon Global Networks	*	15	*
AT&T Wireless Services/Cingular	*	13	—
Global Crossing	12	11	*

\* Represents less than 10% of revenues.

As of December 31, 2004 and 2003, two and four customers each accounted for an aggregate of 53% and 68% of Sonus' accounts receivable balance. Sonus performs ongoing credit evaluations of its customers and generally does not require collateral on accounts receivable. Sonus maintains an allowance for potential doubtful accounts and such losses have been within management's expectations.

International revenues, primarily from Asia and Europe, were 17%, 21% and 18% of revenues for the years ended December 31, 2004, 2003 and 2002.

Certain components and software licenses from third parties used in Sonus' products are procured from a single source. The failure of a supplier, including a subcontractor, to deliver on schedule could delay or interrupt Sonus' delivery of products and thereby materially adversely affect Sonus' revenues and operating results.

#### (e) Foreign Currency Translation

Sonus' customer contracts are primarily denominated in U.S. dollars. Expenses denominated in foreign currencies are translated at average exchange rates for the period. For non-U.S. subsidiaries, which operate in a local currency environment, assets and liabilities are translated at period-end exchange rates. Translation adjustments were not material for any period presented.

#### (f) Unearned Accounts Receivable

Unearned accounts receivable represents products shipped to customers where Sonus has a contractual right to bill the customer and collectibility is probable under ordinary collection terms prior to satisfying Sonus' revenue recognition criteria.

### **(g) Inventory**

Inventory is stated at the lower of cost (first-in, first-out basis) or net realizable value and consists of final assembly materials and finished goods.

Unearned inventory represents deferred cost of revenues prior to satisfaction of Sonus' revenue recognition criteria.

### **(h) Property and Equipment**

Property and equipment are stated at cost, net of accumulated depreciation. Expenditures for maintenance and repairs are charged to expense as incurred. Depreciation is computed using the straight-line method over the estimated useful life of the related assets, which range from two to five years. Leasehold improvements are amortized over the lesser of the life of the lease or five years. When an item is sold or retired, the cost and related accumulated depreciation is relieved, and the resulting gain or loss, if any, is recognized in the statement of operations.

### **(i) Goodwill and Purchased Intangible Assets**

Sonus accounts for goodwill in accordance with SFAS No. 142, *Goodwill and Other Intangible Assets*. All remaining goodwill was written off in impairment charges recorded in 2002.

In accordance with SFAS No. 144, *Accounting for the Impairment or Disposal of Long Lived Assets*, the carrying value of intangible assets and other long-lived assets is reviewed on a regular basis for the existence of facts or circumstances, both internally and externally, that may suggest impairment. Factors Sonus considers important which could trigger an impairment review include:

- Significant underperformance relative to historical or projected future operating results;
- Significant negative industry or economic trends;
- Significant change in circumstances relative to a large customer;
- Significant decline in Sonus' stock price for a sustained period; and
- Sonus' market capitalization relative to Sonus' net book value.

If such circumstances exist, Sonus evaluates the carrying value of long-lived assets, other than goodwill, to determine if impairment exists based upon estimated undiscounted future cash flows over the remaining useful life of the assets and comparing that value to the carrying value of the assets. In determining expected future cash flows, assets are grouped at the lowest level for which cash flows are identifiable and independent of cash flows from other asset groups. If the carrying value of the asset is greater than the estimated future cash flows, the asset is written down to estimated fair value. The estimated future cash flows and valuation of long-lived assets requires significant estimates and assumptions, including revenue and expense growth projections and fair value estimates, such as estimated replacement cost and relief from royalty. The estimates contain management's best estimates, using appropriate and customary assumptions and projections at the time.

As of December 31, 2004, Sonus' purchased intangible assets were fully amortized and had no net book value. As of December 31, 2003, Sonus had \$2.4 million of intangible assets. Amortization was computed over the estimated useful lives of the respective assets.

## **(j) Other Assets**

Other assets are deposits for leased facilities.

## **(k) Revenue Recognition**

Sonus recognizes revenue from product sales when persuasive evidence of an arrangement exists, delivery has occurred, the sales price is fixed and determinable, and collectibility of the related receivable is probable. When Sonus has future obligations, including a requirement to deliver additional elements which are essential to the functionality of the delivered elements or for which vendor specific objective evidence of fair value (VSOE) does not exist or customer acceptance is required, Sonus defers revenue recognition and related costs until those obligations are satisfied. The ordering patterns and sales lead times associated with customer orders may vary significantly from period to period.

Many of Sonus' sales are generated from complex contractual arrangements, which require significant revenue recognition judgments, particularly in the case of multiple element arrangements. When a sale involves multiple elements, such as products, maintenance or professional services, Sonus allocates the entire sales price to each respective element based on VSOE or using the residual method when VSOE cannot be established for a single delivered element in the arrangement. Sonus then recognizes revenue on each element in accordance with its policies for product or service revenue recognition. Sonus determines VSOE based upon the price charged when the same element is sold separately. If Sonus cannot establish VSOE for each undelivered element, it defers revenue recognition on the entire arrangement until the earlier of the establishment of VSOE or delivery of the undelivered element.

In addition, if an arrangement with a customer includes a specified upgrade right for which VSOE cannot be established, Sonus defers all revenue related to the arrangement until the earlier of the delivery of the specified upgrade or the establishment of VSOE for the specified upgrade. Sonus has concluded that a specified upgrade exists if it is included in the customer contract or otherwise becomes part of the arrangement with the customer. Sonus has concluded that communications with customers in the normal course of business regarding customer feature requests and Sonus' product plans do not create specified upgrade rights.

Maintenance and support services are recognized ratably over the life of the maintenance and support service period, which typically is one year when the services are sold separately and up to five years when the fees for the services are bundled with the product fees as part of a multiple element arrangement, following recognition of the related product revenue. Maintenance and support services include telephone support and unspecified rights to product upgrades and enhancements. Maintenance and support VSOE represents a consistent percentage of the sales prices charged to customers. The application of judgment could affect the continued determination of maintenance and support VSOE and Sonus' ability to recognize revenue using the residual method.

Installation service revenues are typically recognized at the time of the related product revenue recognition as installation is typically complete by such time. Professional services are typically recognized as the services are performed.

Sonus sells the majority of its products directly to end-users. For products sold through resellers and distributors, Sonus recognizes revenue on a sell-through method utilizing information provided to Sonus from its resellers and distributors.

Sonus records deferred revenue for product shipped to customers and related services where amounts are billed pursuant to a contractual right and collection is probable, or collected, in the ordinary course of business if the revenue recognition criteria have not been satisfied. Deferred revenues include customer deposits and amounts associated with maintenance contracts. Deferred revenues not expected to be recognized as revenue within one year of the balance sheet date are classified as long-term deferred revenues.

Sonus defers recognition of incremental direct costs, such as cost of goods, royalties, commissions and third-party installation costs, until satisfaction of the criteria for recognition of the related revenue.

#### **(l) Software Development Costs**

Sonus accounts for its software development costs in accordance with SFAS No. 86, *Accounting for the Costs of Computer Software to Be Sold, Leased or Otherwise Marketed*. Accordingly, the costs for the development of new software and substantial enhancements to existing software are expensed as incurred until technological feasibility has been established, at which time any additional costs would be capitalized. Sonus has determined that technological feasibility is established at the time a working model of the software is completed. Because Sonus believes its current process for developing software is essentially completed concurrently with the establishment of technological feasibility, no costs have been capitalized to date.

#### **(m) Stock-based Compensation**

SFAS No. 123, *Accounting for Stock-Based Compensation*, provides that companies may account for stock-based compensation under either the fair value-based method of accounting under SFAS No. 123 or the intrinsic value-based method provided by APB No. 25, *Accounting for Stock Issued to Employees*. Sonus uses the intrinsic value-based method of APB No. 25 to account for all of its employee stock-based compensation plans and uses the fair value method of SFAS No. 123 to account for all non-employee stock-based compensation. Sonus follows FIN 28, *Accounting for Stock Appreciation Rights and Other Variable Stock Option or Award Plans* and amortizes the intrinsic value for all awards as measured under APB No. 25 on an accelerated basis. SFAS No. 123, as amended by SFAS No. 148, *Accounting for Stock-Based Compensation—Transition and Disclosure—an amendment of FASB Statement No. 123*, requires companies following APB No. 25 to make pro forma disclosure in the notes to the consolidated financial statements using the measurement provisions of SFAS No. 123.

Sonus has computed the pro forma disclosures required under SFAS No. 123 for stock options granted to employees and shares purchased under the 2000 Employee Stock Purchase Plan (ESPP) using the Black Scholes option-pricing model. In valuing the stock options granted, Sonus used an assumed risk-free interest rate of 3.0%-3.65% for 2004 and 3% for both 2003 and 2002, volatility of 124%-128% for 2004, 137% for 2003 and 150% for 2002 and an expected life ranging from three to five years, with the assumption that dividends will not be paid. In valuing the ESPP, Sonus used an assumed risk-free interest rate of 1.0%-3.0% for 2004, 1.1%-4.7% for 2003 and 1.6%-6.8% for 2002, volatility of 26%-164% for 2004, 137%-150% for 2003 and 80%-150% for 2002 and an expected life

ranging from six months to two years, with the assumption that dividends will not be paid. The pro forma information is as follows:

	Year ended December 31,		
	2004	2003	2002
	(in thousands, except per share data)		
<b>Net income (loss)</b>			
As reported	\$ 24,477	\$ (15,136)	\$ (73,841)
Plus: Employee stock-based compensation expense included in net income (loss) under intrinsic value method related to options	570	2,589	6,109
Less: Employee stock-based compensation under fair value method	(48,022)	(43,404)	(46,116)
Pro forma	\$ (22,975)	\$ (55,951)	\$ (113,848)
<b>Basic and diluted net income (loss) per share—</b>			
As reported	\$ 0.10	\$ (0.07)	\$ (0.39)
Pro forma	(0.09)	(0.25)	(0.60)

Beginning on July 1, 2005, Sonus will no longer make this pro forma disclosure for stock-based compensation as Sonus is required to adopt SFAS 123(R), *Share-Based Payment*, which is a revision of SFAS No. 123 and supersedes APB Opinion No. 25. SFAS 123(R) requires all share-based payments to employees, including grants of employee stock options, to be recognized in the income statement based on their fair values at the date of grant in fiscal periods beginning after June 15, 2005.

#### (n) Comprehensive Net Income (Loss)

Sonus applies SFAS No. 130, *Reporting Comprehensive Income*. The comprehensive net income (loss) for the years ended December 31, 2004, 2003 and 2002 does not differ from the reported loss.

#### (o) Fair Value of Financial Instruments

The carrying amounts of Sonus' financial instruments, which include cash equivalents, marketable securities, long-term investments, accounts payable, long-term liabilities and the convertible subordinated note, approximate their fair value.

#### (p) Disclosures about Segments of an Enterprise

SFAS No. 131, *Disclosures about Segments of an Enterprise and Related Information*, established standards for reporting information regarding operating segments and established standards for related disclosures about products and services and geographic areas. Operating segments are identified as components of an enterprise about which separate discrete financial information is available for evaluation by the chief operating decision maker in making decisions regarding resource allocation and assessing performance. To date, the chief operating decision maker has made such decisions and assessed performance at the company level.

#### (q) Net Income (Loss) Per Share

Basic net income (loss) per share is computed by dividing the net income (loss) for the period by the weighted average number of shares of unrestricted common stock outstanding during the period.

Diluted net income (loss) per share is computed by dividing the net income (loss) for the period by the weighted average number of shares of unrestricted common stock and dilutive potential common shares outstanding based on the average market price of Sonus' common stock under the treasury stock method. Dilutive potential common shares consist of restricted common stock and common stock issuable upon the exercise of stock options and conversion of a convertible subordinated note.

The following table sets forth the computation of shares used in calculating the net income (loss) per share, in thousands:

	Year ended December 31,		
	2004	2003	2002
Weighted average common shares outstanding	246,175	224,529	203,358
Less weighted average restricted common shares outstanding	(345)	(3,833)	(12,350)
Shares used in computing basic net per share calculation	245,830	220,696	191,008
Add effect of dilutive potential common shares	7,986	—	—
Shares used in dilutive per share calculation	253,816	220,696	191,008

Excluded from the shares used in the calculations above are options to purchase shares of common stock and shares of common stock issuable upon conversion of convertible subordinated notes representing an aggregate of 3,890,329, 28,469,634 and 12,746,113 as of December 31, 2004, 2003 and 2002, as their effects would have been anti-dilutive.

#### (r) Loss Contingencies

**Loss Contingencies and Reserves.** Sonus is subject to ongoing business risks arising in the ordinary course of business that affect the estimation process of the carrying value of assets, the recording of liabilities and the possibility of various loss contingencies. Under SFAS No. 5, *Accounting for Contingencies*, an estimated loss contingency is accrued when it is probable that a liability has been incurred or an asset has been impaired and the amount of loss can be reasonably estimated. Sonus regularly evaluates current information available to determine whether such amounts should be adjusted and records changes in estimates in the period they become known. Based on Sonus' analysis, it has established the following allowance, reserves and accruals:

**Allowance for Doubtful Accounts.** Sonus establishes billing terms at the time it negotiates purchase agreements with its customers. Sonus continually monitors for timely payments and assesses any collection issues. The allowance for doubtful accounts is based on Sonus' detailed assessment of the collectibility of specific customer accounts. While Sonus believes that its allowance for doubtful accounts is adequate and that the judgment applied is appropriate, if there is a deterioration of a customer's creditworthiness or actual defaults are higher than historical experience, the actual results could differ from these estimates. While such credit losses have historically been within Sonus' expectations and the allowances that have been established, Sonus can provide no assurances that it will continue to experience the same credit loss rates that it has in the past. If the financial condition of Sonus' customers were to deteriorate, resulting in an impairment of their ability to make payment, additional allowances may be required. Sonus defers revenue recognition for customers for which Sonus believes collection is less than probable. Sonus' failure to accurately estimate the losses for doubtful accounts and ensure that payments are



received on a timely basis could have a material adverse effect on its business, financial condition and results of operations.

**Inventory Reserves.** Inventory purchases and commitments are based upon estimated future demand for Sonus' products. Sonus values inventory at the lower of cost or net realizable value and provides inventory reserves based on excess and obsolete inventory determined primarily by future demand forecasts and records changes to such reserves through adjustments to cost of revenues. Sonus assesses such demand forecasts on at least a quarterly basis. If Sonus records a charge to reduce inventory to its estimated net realizable value, Sonus cannot increase its carrying value due to subsequent changes in demand forecasts. Accordingly, if inventory previously reserved for is subsequently sold, Sonus may realize improved gross profit margins on those transactions in the period the related revenue is recognized. In fiscal 2004 and 2003, Sonus realized a \$3.0 million and \$5.6 million benefit from the sale of inventory previously written down.

Sonus also records a full inventory reserve for evaluation equipment at the time of shipment to its customers as a charge to sales and marketing expense as Sonus' experience with this type of inventory indicates it is probable that the inventory will not be realizable. If these evaluation shipments should convert to revenue, Sonus records a benefit to sales and marketing expense and records the full cost of revenues in the period of revenue recognition.

Sonus has experienced significant changes in its product demand and, as a result, its required inventory reserves have fluctuated in recent periods. As of December 31, 2004 and 2003, inventory of \$28.3 million and \$13.7 million, was net of reserves of \$10.5 million and \$13.8 million. It is possible that significant changes in required inventory reserves may continue to occur in the future if there is a sudden and significant change in the demand for Sonus' products, changes in the amount of customer evaluation inventory or higher risks of inventory obsolescence because of rapidly changing technology.

**Warranty Reserve.** Sonus' products are covered by a standard warranty of 90 days for software and one year for hardware. In addition, certain customer contracts include warranty-type provisions for epidemic or similar product failures generally for the contractual period or the life of the product in accordance with published telecommunications standards. Sonus accrues for such contingent warranty obligations when the occurrence of such obligation is probable and the amount of such obligation is reasonably estimable. Sonus has not incurred significant costs related to such obligations. Sonus' customers typically purchase maintenance and support contracts, which encompass its warranty obligations. Sonus' warranty reserve reflects estimated material and labor costs for potential or actual product issues in its installed base that are not covered under maintenance contracts but for which Sonus expects to incur an obligation. Sonus' estimates of anticipated rates of warranty claims and costs are primarily based on historical information and future forecasts.

In addition, certain of Sonus' customer contracts include provisions under which Sonus may be obligated to pay penalties generally for the contractual period or the life of the product if Sonus' products fail or do not perform in accordance with specifications. Sonus accrues for such contingent obligations when the occurrence of such obligation is probable and the amount of such obligation is reasonably estimable. Sonus has not incurred significant costs related to such provisions. Sonus periodically assesses the adequacy of its recorded warranty liabilities and adjusts the amounts as necessary. Increases in product failures rates, material usage or service delivery costs may result in increases to its warranty reserve and Sonus' gross profit could be adversely affected.

**Royalty Accrual.** Sonus accrues for royalties for technology it licenses from vendors based on established royalty rates and usage. In certain cases, Sonus has been contacted by third parties who claim that Sonus' products infringe on certain intellectual property of the third party. Sonus evaluates these claims and accrues for royalties when the amounts are probable and reasonably estimable. While Sonus believes that the amounts accrued for estimated royalties are adequate, the amounts required to ultimately settle royalty obligations may be different.

**Reserve for Litigation and Legal Fees.** Sonus is subject to various legal claims, including securities litigation and intellectual property claims. Sonus reserves for legal contingencies and legal fees when the amounts are probable and reasonably estimable. Sonus' director and officer liability insurance policies provide only limited liability protection relating to the securities class action and derivative lawsuits against Sonus and certain of its officers and directors. Sonus intends to defend these matters vigorously, although the ultimate outcome of these items is uncertain and the potential loss, if any, may be significantly different than the amounts Sonus has previously accrued.

#### **(s) Recent Accounting Pronouncements**

In December 2003, the staff of the Securities and Exchange Commission (SEC) issued Staff Accounting Bulletin (SAB) No. 104 (SAB No. 104), *Revenue Recognition*, which supersedes SAB No. 101, *Revenue Recognition in Financial Statements*. SAB No. 104's primary purpose is to rescind the accounting guidance contained in SAB No. 101 related to multiple-element revenue arrangements that was superseded as a result of the issuance of EITF Issue No. 00-21, *Accounting for Revenue Arrangements with Multiple Deliverables*. Additionally, SAB No. 104 rescinds the SEC's related *Revenue Recognition in Financial Statements Frequently Asked Questions and Answers* issued with SAB No. 101 that had been codified in SEC Topic 13, *Revenue Recognition*. While the wording of SAB No. 104 has changed to reflect the issuance of EITF Issue No. 00-21, the revenue recognition principles of SAB No. 101 remain largely unchanged by the issuance of SAB No. 104, which was effective upon issuance. Sonus adopted the provisions of SAB No. 104 in the fourth quarter of 2003. Sonus' adoption of SAB No. 104 did not have a material effect on its financial position or results of operations.

In November 2004, the FASB issued SFAS No. 151, *Inventory Costs, an amendment of Accounting Research Bulletin (ARB) No. 43, Chapter 4*. SFAS 151 amends the guidance in ARB No 43, Chapter 4, "Inventory Pricing" to clarify that abnormal amounts of idle facility expense, freight, handling costs, and wasted material (spoilage) should be recognized as current-period charges. In addition, SFAS 151 requires that allocation of fixed production overhead to the costs of conversion be based on the normal capacity of the production facilities. The provisions of SFAS 151 are effective for fiscal years beginning

after June 15, 2005. Sonus is evaluating the provisions of SFAS 151 and does not believe that its adoption will have a material impact on its financial condition, results of operations or cash flows.

In December 2004, the FASB issued SFAS 123(R), *Share-Based Payment*, which is a revision of SFAS No. 123, *Accounting for Stock-Based Compensation*. SFAS 123(R) supersedes APB Opinion No. 25, *Accounting for Stock Issued to Employees*, and amends SFAS No. 95, *Statement of Cash Flows*. Generally, the approach in SFAS 123(R) is similar to the approach described in SFAS 123. However, SFAS 123(R) requires all share-based payments to employees, including grants of employee stock options, to be recognized in the income statement based on their fair values at the date of grant. Pro forma disclosure is no longer an alternative. SFAS 123(R) must be adopted in fiscal periods beginning after June 15, 2005. Early adoption will be permitted in periods in which financial statements have not yet been issued. Sonus is required to adopt SFAS 123(R) on July 1, 2005, the commencement of its third quarter of fiscal year 2005. SFAS 123(R) permits public companies to adopt its requirements using one of two methods: a "modified prospective" method, in which compensation cost is recognized beginning with the effective date (a) based on the requirements of SFAS 123(R) for all share-based payments granted after the effective date, and (b) based on the requirements of SFAS 123 for all awards granted to employees prior to the effective date of SFAS 123(R) that remain unvested on the effective date; or a "modified retrospective" method, which includes the requirements of the modified prospective method described above, but also permits entities to restate based on the amounts previously recognized under SFAS 123 for purposes of pro forma disclosures either (a) all prior periods presented or (b) prior interim periods of the year of adoption. Sonus has not yet determined which method to use in adopting SFAS 123(R). As permitted by SFAS 123, Sonus currently accounts for share-based payments to employees using APB Opinion No. 25's intrinsic value method and, as such, generally recognizes no compensation cost for employee stock options. Sonus is evaluating SFAS 123(R) and has not yet determined the amount of stock option expense that will be incurred in future periods as a result of the adoption of SFAS 123(R). The adoption of SFAS 123(R) will have no impact on Sonus' net cash flows or overall financial condition.

In October 2004, the American Jobs Creation Act of 2004 (the "AJCA") was passed. The AJCA provides a deduction for income from qualified domestic production activities, which will be phased in from 2005 through 2010. The AJCA also provides for a two-year phase-out of the existing extra-territorial income exclusion for foreign sales that was viewed to be inconsistent with international trade protocols by the European Union. In December 2004, the FASB issued FASB Staff Position ("FSP") No. 109-1, *Application of FASB Statement No. 109, Accounting for Income Taxes, to the Tax Deduction on Qualified Production Activities Provided by the American Jobs Creation Act of 2004*. FSP 109-1 treats the deduction as a "special deduction" as described in SFAS No. 109. This special deduction has no effect on deferred tax assets and liabilities existing at the enactment date and the effect of this deduction will be reported in the same period in which the deduction is claimed by Sonus in its tax return. The AJCA also creates a temporary incentive for U.S. corporations to repatriate accumulated income earned abroad by providing an 85% dividends received deduction for certain dividends from controlled foreign corporations. This deduction is subject to a number of limitations. Sonus is currently evaluating the effects that the AJCA might have on its results of operations and financial position, and, or to what extent, Sonus might repatriate foreign earnings that have not yet been remitted to the U.S.

**(t) Accounting for Income Taxes**

Deferred tax assets and liabilities are determined based on the differences between financial reporting and tax bases of assets and liabilities and are measured using the enacted income tax rates and laws that are expected to be in effect when the temporary differences are expected to reverse. Additionally, deferred tax assets and liabilities are separated into current and non-current amounts based on the classification of the related assets and liabilities for financial reporting purposes. See Note 5.

**(2) Restructuring Charges**

Commencing in the third quarter of fiscal 2001 and extending through fiscal 2002, in response to unfavorable business conditions primarily caused by significant reductions in capital spending by telecommunications service providers, Sonus implemented restructuring actions designed to reduce expenses and align its cost structure with its revised business outlook. The restructuring actions included worldwide workforce reductions, consolidation of excess facilities and the write-off of inventory and purchase commitments.

**2002 Restructuring Activity**

Sonus' restructuring activities for fiscal 2002 are summarized as follows in thousands:

	2002 Activity			2003 Activity		2004 Activity			Current Portion	Long-term Portion
	Restructuring Charges	Cash Payments	Adjustments	Dec. 31, 2002 Accrual Balance	Cash Payments	Dec. 31, 2003 Accrual Balance	Cash Payments	Dec. 31, 2004 Accrual Balance		
Workforce reduction	\$ 5,282	\$ (4,748)	\$ —	\$ 534	\$ (534)	\$ —	\$ —	\$ —	\$ —	\$ —
Consolidation of facilities	3,332	(1,002)	(116)	2,214	(1,071)	1,143	(344)	799	186	613
Sub-total	8,614	(5,750)	(116)	2,748	(1,605)	1,143	(344)	799	186	613
Write-off (benefit) of purchase commitments	2,408	(1,333)	(735)	340	(300)	40	(40)	—	—	—
<b>Total</b>	<b>\$ 11,022</b>	<b>\$ (7,083)</b>	<b>\$ (851)</b>	<b>\$ 3,088</b>	<b>\$ (1,905)</b>	<b>\$ 1,183</b>	<b>\$ (384)</b>	<b>\$ 799</b>	<b>\$ 186</b>	<b>\$ 613</b>

The remaining cash expenditures relating to the consolidation of excess facilities are expected to be paid through 2008.

**(a) Workforce reduction**

The restructuring actions in fiscal 2002 resulted in a reduction of Sonus' workforce by approximately 230 employees, or 39%. The affected employees were entitled to severance and other benefits for which Sonus recorded a charge of \$5,282,000 in fiscal 2002. In addition in fiscal 2002, Sonus recorded non-cash, stock based compensation expense of \$1,466,000 related to the write-off of deferred compensation associated with shares and options held by terminated employees.

**(b) Consolidation of excess facilities**

Sonus recorded a net restructuring charge in fiscal 2002 of \$3,216,000 for the consolidation of excess facilities. The accrual for the consolidation of excess facilities was determined assuming no sublease income.

**(c) Write-off (benefit) of inventory and purchase commitments**

During fiscal 2002, Sonus recorded additional cost of revenues of \$6,130,000, consisting of \$4,457,000 for the write-off of inventory determined to be excess and obsolete and \$1,673,000 for materials that were committed to be purchased from third-party contract manufacturers and suppliers under purchase commitments, but that were in excess of required quantities. The charge for purchase commitments was recorded on the balance sheet as accrued restructuring expenses.

**2001 Restructuring Activity**

Sonus' restructuring activities for fiscal 2001 are summarized as follows in thousands:

	2002 Activity			2003 Activity			2004 Activity	
	Dec. 31, 2001 Accrual Balance	Cash Payments	Adjustments	Dec. 31, 2002 Accrual Balance	Cash Payments	Dec. 31, 2003 Accrual Balance	Cash Payments	Dec. 31, 2004 Accrual Balance
Workforce reduction	\$ 533	\$ (533)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Consolidation of facilities and other charges (benefit)	2,696	(1,366)	(759)	571	(390)	181	(181)	\$ —
<b>Total</b>	<b>\$ 3,229</b>	<b>\$ (1,899)</b>	<b>\$ (759)</b>	<b>\$ 571</b>	<b>\$ (390)</b>	<b>\$ 181</b>	<b>\$ (181)</b>	<b>\$ —</b>

**(3) Other Balance Sheet Data**

**(a) Accounts Receivable**

Accounts receivable consists of the following, in thousands:

	December 31,	
	2004	2003
Earned accounts receivable	\$ 15,919	\$ 11,326
Unearned accounts receivable	16,976	12,713
Accounts receivable, gross	32,895	24,039
Allowance for doubtful accounts	(409)	(285)
Accounts receivable, net	\$ 32,486	\$ 23,754

**(b) Inventory**

Inventory consists of the following, in thousands:

	December 31,	
	2004	2003
On-hand final assemblies and finished goods inventory	\$ 18,725	\$ 11,366
Unearned inventory	14,054	10,173
Evaluation inventory	6,107	6,014
Inventory, gross	38,886	27,553
Excess, obsolete and evaluation reserve	(10,540)	(13,814)
Inventory, net	\$ 28,346	\$ 13,739

**(c) Property and Equipment**

Property and equipment consists of the following, in thousands:

	Estimated Useful Life	December 31,	
		2004	2003
Equipment and software	2–3 years	\$ 59,500	\$ 50,966
Furniture and fixtures	3–5 years	26	579
Leasehold improvements	Life of lease	484	2,592
		60,010	54,137
Less accumulated depreciation		(51,793)	(49,128)
Property and equipment, net		\$ 8,217	\$ 5,009

**(d) Accrued Expenses**

Accrued expenses consists of the following, in thousands:

	December 31,	
	2004	2003
Employee compensation and related costs	\$ 6,148	\$ 4,351
Employee stock purchase plan	2,129	821
Professional fees	3,697	6,208
Royalties	3,488	4,672
Warranty	—	2,500
Other	2,778	3,613
	\$ 18,240	\$ 22,165

**(e) Deferred Revenue**

Deferred revenue consists of the following, in thousands:

	December 31,	
	2004	2003
Maintenance and support contracts	\$ 44,859	\$ 39,104
Customer deposits	29,230	35,183
Unearned revenue	16,976	12,713
Total deferred revenue	91,065	87,000
Less current portion	(65,105)	(62,698)
	\$ 25,960	\$ 24,302

**(4) Valuation and Qualifying Accounts**

**(a) Allowance for Doubtful Accounts**

The following table sets forth activity in Sonus' allowance for doubtful accounts, in thousands:

Year ended December 31:	Balance at beginning of year	Charges (benefits) to expenses	Write-offs	Balance at end of year
2004	\$ 285	\$ 278	\$ (154)	\$ 409
2003	341	170	(226)	285
2002	2,082	(1,683)	(58)	341

**(b) Inventory Reserve**

The following table sets forth activity in Sonus' inventory reserve, in thousands:

Year ended December 31:	Balance at beginning of year	Charges to expenses	Dispositions and sales	Balance at end of year
2004	\$ 13,814	\$ 5,478	\$ (8,705)	\$ 10,587
2003	18,306	5,806	(10,298)	13,814
2002	12,925	9,369	(3,988)	18,306

**(c) Warranty Reserve**

The following table sets forth activity in Sonus' warranty reserve accrual, included in accrued expenses, in thousands:

Year ended December 31:	Balance at beginning of year	Charges (benefits) to expenses	Costs incurred	Balance at end of year
2004	\$ 2,500	\$ (1,949)	\$ (551)	\$ —
2003	1,300	1,200	—	2,500
2002	2,100	(800)	—	1,300

## (5) Income Taxes

Sonus provides for income taxes in accordance with SFAS No. 109, *Accounting for Income Taxes*. Deferred tax assets and liabilities are determined based on differences between the financial statement and tax bases of assets and liabilities using enacted tax rates.

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts for income tax purposes. A valuation allowance has been recorded for the net deferred tax asset due to the uncertainty of realizing the benefit of this asset.

The following is a summary of the significant components of Sonus' deferred tax assets and liabilities, in thousands:

	December 31,	
	2004	2003
Net operating loss carryforwards	\$ 63,605	\$ 71,763
Tax credit carryforwards	8,455	9,687
Intangible assets	1,565	788
Deferred revenue	20,611	21,006
Accrued expenses	(1,105)	313
Inventory reserves	5,240	5,512
Other temporary differences	(3,454)	(4,325)
Valuation allowance	(94,917)	(104,744)
	\$ —	\$ —

As of December 31, 2004, Sonus has net operating loss carryforwards for federal income tax purposes of approximately \$167,557,000 that expire through 2023. Approximately \$68,000,000 of the net operating loss is attributable to stock option deductions; a substantial portion of the benefit will be accounted for when used as an increase to capital in excess of par value. Sonus also has available research and development credit carryforwards of approximately \$8,187,000 that expire through 2023, and an Alternative Minimum Tax Credit carryforward of \$268,000 that has no expiration date. The Internal Revenue Code (IRC) contains provisions that limit the net operating loss and tax credit carryforwards available to be used in any given year in the event of certain circumstances, including significant changes in ownership interests. Sonus has completed several financings since inception and may have incurred ownership changes as defined in the IRC. Sonus does not believe that these changes have had a material impact on its ability to use net operating loss and tax credit carryforwards.



Income tax (benefit) expense differed from the amounts computed by applying the U.S. statutory income tax rate to pre-tax income as a result of the following:

	2004	2003	2002
Statutory income tax (benefit) expense	35.0%	(35.0)%	(35.0)%
State income taxes, net of federal benefit	3.6	(4.5)	(4.5)
Foreign income tax rate differential	—	1.1	—
Stock-based compensation	0.8	6.5	10.5
Tax credits	4.9	(9.8)	(2.3)
Valuation allowance	(42.9)	44.0	34.3
Other, net	1.3	(0.3)	(2.9)
Effective income tax rate	2.7%	2.0%	0.1%

The current provision for income taxes consists of the following, in thousands:

	2004	2003	2002
Federal	\$ 335	\$ —	\$ —
State	211	130	86
Foreign	141	172	—
Total	\$ 687	\$ 302	\$ 86

#### (6) Long-term Liabilities

Long-term liabilities consist of capital leases and restructuring expenses. Sonus assumed certain capital leases as part of the acquisition of TTI and the remaining capital lease is due in monthly installments expiring in March 2005 and accrues interest at an annual rate of 5.9%. The future minimum annual payments under capital leases and amounts due for long-term liabilities are as follows, in thousands:

	December 31,	
	2004	2003
<b>Capital Leases:</b>		
2004	\$ —	\$ 189
2005	30	30
Total minimum lease payments	30	219
Less amount representing interest	—	(7)
Present value of minimum payments	30	212
<b>Long-term portion of restructuring expenses</b>	<b>613</b>	<b>799</b>
Total long-term liabilities	643	1,011
Less current portion	(30)	(182)
Long-term liabilities, net of current portion	\$ 613	\$ 829

The future principal payments on long-term liabilities, excluding the capital leases, as of December 31, 2004 are as follows: \$195,000 in 2006; \$204,000 in 2007; \$213,000 in 2008.

#### **(7) Bank Agreement**

In January 2002, Sonus established a \$10,000,000 equipment line of credit and a \$20,000,000 working capital line of credit with a bank, at the bank's prime rate. In March 2003, Sonus extended these existing lines of credit at the bank's prime rate (4.0% at December 31, 2003). The lines of credit expired in March 2004 and were not renewed. As of December 31, 2004 and 2003, Sonus had no amounts outstanding under the equipment line of credit (Note 6). Interest expense related to the line of credit was \$104,000 for 2003 and \$134,000 for 2002.

#### **(8) Convertible Subordinated Note**

In May 2001, Sonus completed a private placement of an aggregate principal amount of \$10,000,000 of a 4.75% convertible subordinated note, due May 1, 2006, with a customer. Interest payments are due semi-annually on May 1 and November 1 of each year through May 2006. The note may be converted by the holder into shares of Sonus' common stock at any time before its maturity or prior to its redemption or repurchase by Sonus. The conversion rate is 33.314 shares per each \$1,000 principal amount of the note, subject to adjustment in certain circumstances. After May 1, 2004, Sonus has the option to redeem all or a portion of the note at 100% of the principal amount. Also, at any time if the market price of Sonus' common stock exceeds \$60.04 per share for twenty trading days in any thirty trading-day period, Sonus may redeem this note through the issuance of shares of common stock or for cash. In the event of a change of control in Sonus, the holder at its option may require Sonus to redeem the note through the issuance of common stock or cash. Interest expense related to the convertible subordinated note was \$475,000 per year for 2004, 2003 and 2002.

#### **(9) Commitments and Contingencies**

##### ***(a) Leases***

Sonus leases its facilities under operating leases, which expire through December 2008. Sonus is responsible for certain real estate taxes, utilities and maintenance costs under these leases. In October 2003, Sonus entered into a sublease agreement for a new corporate headquarters facility with rent commencing in April 2004 and extending through January 2007. In November 2004 Sonus entered into a lease agreement for a new development center in Bangalore, India, consisting of approximately 16,000 square feet under a lease expiring in January 2008. Rent expense was \$2,716,000, \$2,638,000 and \$3,267,000 for 2004, 2003 and 2002. The future minimum payments under operating lease arrangements as of December 31, 2004 are as follows: \$1,250,000 in 2005; \$1,059,000 in 2006; \$444,000 in 2007; and \$396,000 in 2008.

##### ***(b) Pending Litigation and Claims***

In November 2001, a purchaser of Sonus' common stock filed a complaint in the federal district court for the Southern District of New York against Sonus, two of its officers and the lead underwriters alleging violations of the federal securities laws in connection with Sonus' initial public offering (IPO) and seeking unspecified monetary damages. The purchaser seeks to represent a class of persons who

purchased Sonus' common stock between the IPO on May 24, 2000 and December 6, 2000. An amended complaint was filed in April 2002. The amended complaint alleges that Sonus' registration statement contained false or misleading information or omitted to state material facts concerning the alleged receipt of undisclosed compensation by the underwriters and the existence of undisclosed arrangements between underwriters and certain purchasers to make additional purchases in the after market. The claims against Sonus are asserted under Section 10(b) of the Securities Exchange Act of 1934 and Section 11 of the Securities Act of 1933 and against the individual defendants under Sections 11 and 15 of the Securities Act and Sections 10(b) and 20(a) of the Exchange Act. Other plaintiffs have filed substantially similar class action cases against approximately 300 other publicly traded companies and their IPO underwriters which, along with the actions against Sonus, have been transferred to a single federal judge for purposes of coordinated case management. On July 15, 2002, Sonus, together with the other issuers named as defendants in these coordinated proceedings, filed a collective motion to dismiss the consolidated amended complaints on various legal grounds common to all or most of the issuer defendants. The plaintiffs voluntarily dismissed the claims against many of the individual defendants, including those Sonus officers named in the complaint. On February 19, 2003, the court granted a portion of the motion to dismiss by dismissing the Section 10(b) claims against certain defendants including Sonus, but denied the remainder of the motion as to the defendants. In June 2003, a special committee of Sonus' Board of Directors authorized Sonus to enter into a proposed settlement with the plaintiffs on terms substantially consistent with the terms of a Memorandum of Understanding negotiated among representatives of the plaintiffs, the issuer defendants and the insurers for the issuer defendants. On February 15, 2005, the court preliminarily approved the terms of the proposed settlement contingent on modifications to the proposed settlement. The settlement is subject to final approval by the court. No hearing date has been scheduled for final approval. It remains uncertain whether and when the settlement will become final. Sonus does not expect that the settlement would have a material impact on its business or financial results.

Beginning in July 2002, several purchasers of Sonus' common stock filed complaints in federal district court for the District of Massachusetts against Sonus, certain officers and directors and a former officer under Sections 10(b) and 20(a) and Rule 10b-5 of the Securities Exchange Act of 1934 (Class Action Complaints). The purchasers seek to represent a class of persons who purchased Sonus' common stock between December 11, 2000 and January 16, 2002, and seek unspecified monetary damages. The Class Action Complaints were essentially identical and alleged that Sonus made false and misleading statements about its products and business. On March 3, 2003, the plaintiffs filed a Consolidated Amended Complaint. On April 22, 2003, Sonus filed a motion to dismiss the Consolidated Amended Complaint on various grounds. On May 11, 2004, the court held oral argument on the motion, at the conclusion of which the court denied Sonus' motion to dismiss. The plaintiffs filed a motion for class certification on July 30, 2004, and Sonus filed its opposition on September 10, 2004, to which the plaintiffs replied on September 30, 2004. On February 16, 2005, the court certified the class and appointed a class representative. On March 9, 2005, the court appointed the law firm of Moulton & Gans as lead counsel, and the court also ordered additional filings as to the adequacy of the class representative and has scheduled a further hearing on April 29, 2005. Sonus believes the claims in the Consolidated Amended Complaint are without merit and that it has substantial legal and factual defenses, which it intends to pursue vigorously. There is no assurance Sonus will prevail in defending these actions.

Beginning in February 2004, a number of purported shareholder class action complaints were filed in the United States District Court for the District of Massachusetts against Sonus and certain of its current officers and directors. On June 28, 2004, the court consolidated the claims. On December 1, 2004, the lead plaintiff filed a consolidated amended complaint. The complaint asserts claims under the federal securities laws, specifically Sections 10(b) and 20(a) of the Securities Exchange Act of 1934 and Sections 11, 12(a), and 15 of the Securities Act of 1933, relating to Sonus' restatement of its financial results for 2001, 2002, and the first three quarters of 2003. Specifically, the complaint alleges that Sonus issued a series of false or misleading statements to the market concerning Sonus' revenues, earning and financial condition. Plaintiffs contend that such statements caused Sonus' stock price to be artificially inflated. The complaint seeks unspecified damages on behalf of a purported class of purchasers of Sonus' common stock during the period from March 28, 2002, through March 26, 2004. On January 28, 2005, Sonus filed a motion to dismiss the Section 10(b) and 12(a) claims and joined the motion to dismiss the Section 11 claim filed by the individual defendants. No hearing date for this motion has been scheduled. Sonus believes that it has substantial legal and factual defenses to the claims, which it intends to pursue vigorously. There is no assurance Sonus will prevail in defending these actions.

In February 2004, three purported shareholder derivative lawsuits were filed in the United States District Court for the District of Massachusetts against Sonus and certain of its officers and directors, naming Sonus as a nominal defendant. Also in February 2004, two-purported shareholder derivative lawsuits were filed in the business litigation session of the superior court of Suffolk County of Massachusetts against Sonus and certain of its directors and officers, also naming Sonus as a nominal defendant. The suits claim that certain of Sonus' officers and directors breached their fiduciary duties to Sonus' stockholders and to the company. The complaints are derivative in nature and do not seek relief from Sonus. However, Sonus has entered into indemnification agreements in the ordinary course of business with certain of the defendant officers and directors and may be obligated throughout the pendency of these actions to advance payment of legal fees and costs incurred by the defendants pursuant to Sonus' obligations under the indemnification agreements or applicable Delaware law. On September 27, 2004, the state court granted Sonus' motion to dismiss. On October 26, 2004, the plaintiffs filed a notice appealing the state court's dismissal of the actions. In the federal actions, on June 28, 2004, the court consolidated and stayed the three actions. On October 12, 2004, the lead plaintiff filed a consolidated amended complaint. Sonus believes that it has substantial legal and factual defenses to the federal claims and has filed a motion to dismiss based on the decision by the state court. No date for a hearing on the motion has been scheduled. There is no assurance Sonus will prevail in defending these actions.

In December 2004, a purchaser of Sonus' common stock filed a complaint in the circuit court in Will County, Illinois, against the Company, one of its officers, and a former officer alleging misrepresentation and fraud in connection with the plaintiff's purchase of Sonus stock. The Complaint seeks unspecified damages. Sonus believes that it has substantial legal and factual defenses to these claims, which it intends to pursue vigorously. Sonus filed a motion to dismiss the complaint. The hearing on the motion has been scheduled for April 26, 2005. There is no assurance Sonus will prevail in defending this action.

In June 2004, Sonus received a formal order of private investigation from the SEC. Sonus is cooperating with the investigation. There can be no assurance as to the outcome of the SEC investigation. Sonus may incur substantial costs in connection with the investigation including fines and significant legal expenses.

Sonus has been contacted by third parties, who claim that Sonus' products infringe on certain intellectual property of the third party. Sonus evaluates these claims and accrues for royalties when the amounts are probable and reasonably estimable. While Sonus believes that the amounts accrued for estimated royalties are adequate, any subsequent change in Sonus' estimates will be recorded at such time the change is probable and estimable.

## **(10) Stockholders' Equity**

### ***(a) Public Offerings***

In September 2003, Sonus completed a public offering of 17,000,000 shares of its common stock at \$7.75 per share, resulting in net proceeds of \$126,088,000 after deducting offering costs of \$5,662,000.

In April 2003, Sonus completed a public offering of 20,000,000 shares of its common stock at \$3.05 per share, resulting in net proceeds of \$56,730,000 after deducting offering costs of \$4,270,000.

### ***(b) 1997 Stock Incentive Plan***

On January 1 of each year, the aggregate number of shares of common stock available for issuance under the 1997 Stock Incentive Plan (Plan) shall increase by the lesser of (i) 5% of the outstanding shares on December 31 of the preceding year or (ii) an amount determined by the Board of Directors. As of December 31, 2004, 122,854,120 shares were authorized and 37,312,611 shares were available under the Plan for future issuance.

Sonus issued shares of restricted common stock to employees and consultants which are subject to repurchase agreements and generally vest over a four or five-year period. If the employee leaves or if the services are not performed, Sonus may repurchase any restricted shares of common stock held by these individuals at their original purchase price ranging from \$0.01 to \$4.67 per share. All shares of common stock subject to repurchase restrictions contain the same rights and privileges as unrestricted shares of common stock and are presented as outstanding as of the date of issuance. As of December 31, 2004, the restrictions on all shares had lapsed that were subject to Sonus' right to repurchase.

On October 16, 2002, Sonus commenced its Exchange Offer for outstanding employee stock options granted under the Plan having an exercise price of \$0.67 or more per share for new stock options to be granted by Sonus. Outstanding options granted under the telecom technologies, inc. (TTI) Amended and Restated 1998 Equity Incentive Plan were not eligible for exchange. Also, Sonus' directors, executive officers and non-employees were not eligible to participate in the exchange. On November 22, 2002, the Exchange Offer expired. Outstanding options to purchase approximately 8,973,000 shares of common stock were accepted for exchange and cancelled. On May 27, 2003, employees received an option to purchase one share of common stock for each share of common stock under the exchanged options. The new options were granted at an exercise price of \$4.08 per share, which represented the fair market value of Sonus' common stock on the date of grant.

A summary of activity under the Plan for the years ended December 31, 2002, 2003 and 2004, is as follows:

#### Restricted Common Stock Issuances

	Number of Shares	Purchase Price	Weighted Average Purchase Price
Outstanding, December 31, 2001	42,779,404	\$ 0.01-4.67	\$ 0.20
Repurchased	(1,063,999)	0.01-4.00	0.17
Outstanding, December 31, 2002	41,715,405	0.01-4.67	0.20
Repurchased	(30,100)	0.16-0.22	0.20
Outstanding, December 31, 2003	41,685,305	0.01-4.67	0.19
Repurchased	—	—	—
Outstanding, December 31, 2004	41,685,305	\$ 0.01-4.67	\$ 0.19
Unrestricted common stock, December 31, 2004	41,685,305	\$ 0.01-4.67	\$ 0.19
Unrestricted common stock, December 31, 2003	40,627,260	\$ 0.01-4.67	\$ 0.19
Unrestricted common stock, December 31, 2002	34,834,854	\$ 0.01-4.67	\$ 0.35

## Common Stock Option Grants

	Number of Shares	Exercise Price	Weighted Average Exercise Price
Outstanding, December 31, 2001	20,415,060	\$ 0.01-29.00	\$ 15.98
Granted	5,958,300	0.25-3.91	2.79
Canceled(1)	(13,484,486)	0.01-22.25	11.85
Exercised	(475,901)	0.07-3.33	0.34
Outstanding, December 31, 2002	12,412,973	0.01-29.00	5.42
Granted	20,247,276	1.18-7.65	4.35
Canceled	(2,329,386)	0.67-22.25	8.55
Exercised	(2,194,369)	0.07-4.67	2.71
Outstanding, December 31, 2003	28,136,494	0.01-29.00	4.60
Granted	11,473,300	3.80-5.90	4.88
Canceled	(1,492,290)	0.25-13.88	5.14
Exercised	(1,224,285)	0.07-4.67	3.02
Outstanding, December 31, 2004	36,893,219	\$ 0.01-29.00	\$ 4.71
Exercisable, December 31, 2004	15,683,511	\$ 0.01-29.00	\$ 4.75
Exercisable, December 31, 2003	9,780,521	\$ 0.01-29.00	\$ 4.68
Exercisable, December 31, 2002	6,079,842	\$ 0.01-29.00	\$ 5.46

- (1) Of the 13,484,486 options canceled in 2002, 8,973,160 were in connection with the Exchange Offer. Employees received an option to purchase one share of common stock for each option to purchase one share of common stock that was canceled. Sonus issued new options in exchange for such tendered options on May 27, 2003.

The weighted average fair value of each option granted under the Plan for 2004, 2003 and 2002 is \$4.18, \$3.76 and \$2.58 per share.

The following table summarizes information relating to currently outstanding and exercisable options as of December 31, 2004:

Exercise Price	Outstanding			Exercisable	
	Number of Shares	Weighted Average Remaining Contractual Life (Years)	Weighted Average Exercise Price	Number of Shares	Weighted Average Exercise Price
\$0.01	22,687	3.29	\$ 0.01	22,687	\$ 0.01
0.07	358,186	4.10	0.07	358,186	0.07
0.16–0.22	190,250	4.92	0.20	190,250	0.20
0.25	437,259	7.81	0.25	198,971	0.25
0.67	373,097	5.05	0.67	373,097	0.67
1.18	29,542	8.10	1.18	15,011	1.18
1.58–3.33	3,829,331	5.07	3.13	3,648,552	3.16
3.80–4.04	3,556,050	8.78	3.96	425,789	3.96
4.08	7,456,193	5.40	4.08	4,520,145	4.08
4.09–4.10	1,381,700	9.50	4.10	3,200	4.10
4.47	9,300,404	8.46	4.47	3,449,952	4.47
4.67–4.83	653,920	5.36	4.67	653,270	4.67
5.19	3,839,000	9.65	5.19	1,326	5.19
5.29–7.67	3,776,800	9.44	5.94	318,584	6.90
13.88–19.00	1,626,000	6.09	13.99	1,444,817	13.98
22.25–29.00	62,800	6.16	25.47	59,674	25.29
	<u>36,893,219</u>	<u>7.52</u>	<u>\$ 4.71</u>	<u>15,683,511</u>	<u>\$ 4.75</u>

**(c) 2000 Employee Stock Purchase Plan**

On January 1 of each year, the aggregate number of shares of common stock available for purchase under the ESPP shall increase by the lesser of (i) 2% of the outstanding shares on December 31 of the preceding year or (ii) an amount determined by the Board of Directors. As of December 31, 2004, 20,341,648 shares were authorized and 15,650,962 shares were available under the ESPP for future issuance.

**(d) 1998 Equity Incentive Plan**

In January 2001 in connection with the completion of the TTI acquisition, Sonus assumed TTI's 1998 Equity Incentive Plan and all grants of options under this plan. Each outstanding option to purchase shares of TTI Class B common stock granted under the 1998 Equity Incentive Plan immediately prior to the effective time of the acquisition was converted into an option to purchase Sonus common stock based on the merger consideration, with the exercise price of the options being proportionately adjusted.

In continuation of a 1997 agreement entered into by the TTI founders and other TTI shareholders, the founders agreed, in exchange for the option exercise proceeds, to transfer to Sonus a number of shares of Sonus' common stock received by them in the acquisition equal to the number of shares of Sonus' common stock issued upon exercise by former TTI employees of the stock options granted under the TTI 1998 Equity Incentive Plan. As a result of this agreement, the aggregate number of



outstanding shares of Sonus' common stock that will be issued upon exercise of these stock options will not increase.

**(e) Stock-based Compensation**

Stock based compensation expenses include the amortization of deferred employee compensation and other equity related expenses for non-employees.

In connection with certain employee stock option grants and the issuance of employee restricted common stock during the years ended December 31, 2000 and 1999, Sonus recorded deferred stock based compensation of \$39,433,000 and \$20,859,000. This represents the aggregate difference between the exercise price or purchase price and the fair value of the common stock on the date of grant or sale for accounting purposes. The deferred compensation is recognized as an expense over the vesting period of the underlying stock options and restricted common stock based on the accelerated method prescribed by FIN 28. This deferred compensation has been fully amortized as of December 31, 2004.

In connection with the TTI acquisition, Sonus recorded deferred stock based compensation of \$22,600,000 for the year ended December 31, 2001, related to the intrinsic value of unvested TTI stock options assumed by Sonus. This deferred compensation is recognized as an expense over the remaining vesting period of the underlying stock options of up to four years. Additionally, Sonus recorded \$55,438,000 of deferred stock based compensation on 3,000,000 shares awarded to TTI employees under the Retention Plan, based on the fair value of the Sonus common stock on the closing date of the acquisition. This deferred compensation has been fully amortized as of December 31, 2002.

Sonus has valued the stock options and the issuances of restricted common stock to non-employees based upon the fair market value of the services rendered where Sonus believes the value of these services is more readily determinable than the value of the options or restricted stock.

Sonus recorded stock based compensation of \$671,000, \$3,418,000 and \$16,871,000 for the years ended December 31, 2004, 2003 and 2002. Stock based compensation expense for the years ended December 31, 2003 and 2002 is net of \$229,000 and \$4,926,000 related to the recapture of accelerated expense with respect to shares held by terminated employees. In 2002, stock-based compensation expense included \$562,000 relating to the exchange of outstanding employee stock options for new stock options granted by Sonus.

**(f) Common Stock Reserved**

Common stock reserved for future issuance at December 31, 2004 consist of the following:

Stock incentive plan	74,205,830
Employee stock purchase plan	15,650,962
Conversion of convertible subordinated note	333,140
	<hr/>
	90,189,932
	<hr/>

## (11) Employee Benefit Plan

In 1998, Sonus adopted a savings plan for its employees, which has been qualified under Section 401(a) of the Internal Revenue Code. Eligible employees are permitted to contribute to the 401(k) plan through payroll deductions within statutory and plan limits. Contributions from Sonus are made at the discretion of the Board of Directors. Sonus has made no contributions to the 401(k) plan to date.

## (12) Quarterly Results of Operations (unaudited)

The following table presents Sonus' quarterly operating results for the years ended December 31, 2004 and 2003. The information for each of these quarters is unaudited and has been prepared on the same basis as the audited consolidated financial statements. In the opinion of management, all necessary adjustments, consisting only of normal recurring adjustments, have been included to present fairly the unaudited consolidated quarterly results when read in conjunction with Sonus' audited consolidated financial statements and related notes. The quarterly net income in the fourth quarter of 2003 was primarily the result of recognizing previously deferred revenue of \$10,900,000 from arrangements with a single customer. The previously deferred revenue was recognized as revenue upon the delivery of certain specified software releases in the fourth quarter of 2003. These operating results are not necessarily indicative of the results of any future period.

	Three months ended							
	Dec. 31, 2004	Sept 30, 2004	June 30, 2004	Mar. 31, 2004	Dec. 31, 2003	Sept. 30, 2003	June 30, 2003	Mar. 31, 2003
(in thousands, except per share data)(unaudited)								
<b>Consolidated Statement of Operations Data:</b>								
Revenues	\$ 45,083	\$ 46,762	\$ 42,361	\$ 36,532	\$ 46,384	\$ 22,251	\$ 15,366	\$ 9,209
Cost of revenues	13,757	10,469	13,941	12,400	17,295	9,256	7,265	4,093
<b>Gross profit</b>	<b>31,326</b>	<b>36,293</b>	<b>28,420</b>	<b>24,132</b>	<b>29,089</b>	<b>12,995</b>	<b>8,101</b>	<b>5,116</b>
<b>Operating expenses:</b>								
Research and development	9,348	8,975	8,923	8,928	7,945	8,036	8,504	7,705
Sales and marketing	8,935	10,539	8,635	6,860	6,990	7,732	4,476	3,971
General and administrative	7,385	6,638	5,745	4,827	6,338	842	1,456	1,839
Stock based compensation	65	91	136	379	802	1,047	645	924
Amortization of goodwill and purchased intangible assets	601	601	600	600	602	602	602	602
<b>Total operating expenses</b>	<b>26,334</b>	<b>26,844</b>	<b>24,039</b>	<b>21,594</b>	<b>22,677</b>	<b>18,259</b>	<b>15,683</b>	<b>15,041</b>
<b>Income (loss) from operations</b>	<b>4,992</b>	<b>9,449</b>	<b>4,381</b>	<b>2,538</b>	<b>6,412</b>	<b>(5,264)</b>	<b>(7,582)</b>	<b>(9,925)</b>
Interest income, net	1,358	1,033	770	643	693	268	313	251
<b>Income (loss) before income taxes</b>	<b>6,350</b>	<b>10,482</b>	<b>5,151</b>	<b>3,181</b>	<b>7,105</b>	<b>(4,996)</b>	<b>(7,269)</b>	<b>(9,674)</b>
Provision for income taxes	89	214	217	167	204	33	32	33
<b>Net income (loss)</b>	<b>\$ 6,261</b>	<b>\$ 10,268</b>	<b>\$ 4,934</b>	<b>\$ 3,014</b>	<b>\$ 6,901</b>	<b>\$ (5,029)</b>	<b>\$ (7,301)</b>	<b>\$ (9,707)</b>
<b>Net income (loss) per share:</b>								
Basic	\$ 0.03	\$ 0.04	\$ 0.02	\$ 0.01	\$ 0.03	\$ (0.02)	\$ (0.03)	\$ (0.05)
Diluted	\$ 0.02	\$ 0.04	\$ 0.02	\$ 0.01	\$ 0.03	\$ (0.02)	\$ (0.03)	\$ (0.05)
<b>Shares used in computing net income (loss) per share:</b>								
Basic	247,134	246,198	245,390	244,607	242,983	224,356	215,970	198,703
Diluted	256,443	251,707	250,127	255,592	258,607	224,356	215,970	198,703

## EXHIBIT INDEX

Exhibit No.	Description
3.1(g)	Fourth Amended and Restated Certificate of Incorporation of Sonus Networks, Inc., as amended.
3.2(b)	Amended and Restated By Laws of Sonus Networks, Inc.
4.1(b)	Form of Stock Certificate representing shares of Sonus Networks, Inc. Common Stock.
10.1(a)	Registration Rights Agreement, dated as of November 2, 2000, by and among Sonus Networks, Inc. and the Stockholder parties thereto.
10.2(a)+	Sonus 2000 Retention Plan.
10.3(a)+	Telecom technologies, inc. 1998 Amended Equity Incentive Plan.
10.4(b)+	Amended and Restated 1997 Stock Incentive Plan of the Registrant.
10.5(b)+	2000 Employee Stock Purchase Plan of the Registrant.
10.6(a)	Lease, dated September 30, 2000, between the Registrant and BCIA New England Holdings LLC with respect to property located at 25 Porter Road, Littleton, Massachusetts.
10.7(a)	Office Lease Agreement, dated as of November 14, 2000, between telecom technologies, inc. and TR Lookout Partners, Ltd. with respect to property located at 1301 East Lookout Drive, Suite 3000, Richardson, Texas.
10.8(a)	First Amendment to Office Lease Agreement, dated as of January 8, 2001, between telecom technologies, inc. and TR Lookout Partners, Ltd. with respect to property located at 1300 East Lookout Drive, Suite 3000, Richardson, Texas.
10.9(c)	Office Lease Agreement dated April 4, 1997, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.10(c)	First Amendment to Office Lease Agreement, dated November 1, 1997, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.11(c)	Second Amendment to Office Lease Agreement, dated July 1, 1998, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.12(c)	Third Amendment to Office Lease Agreement, dated July 1, 1998, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.13(c)	Fourth Amendment to Office Lease Agreement, dated February 1, 1999, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.14(c)	Global Agreement, dated March 5, 2002, by and between TR Lookout Partners, Ltd., Collins Campbell Joint Venture, telecom technologies, inc. and Registrant related to property lease agreements.
10.15(e)	Fifth Amendment to Office Lease Agreement, dated February 28, 2002, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.16(e)	Sixth Amendment to Office Lease Agreement, dated February 1, 2003, between telecom technologies, inc. and Collins Campbell Joint Venture with respect to property located at 1701 North Collins Blvd., Suite 3000, Richardson, Texas.
10.17(g)	Sublease Agreement, dated October 16, 2003, by and between Cisco Systems, Inc. and Sonus Networks, Inc. with respect to property located at 250 Apollo Drive, Chelmsford, Massachusetts.
10.18(d)	Offer to Exchange Outstanding Stock Options dated October 16, 2002, as amended.
10.19(h)+	Employment letter dated April 6, 2004, by and between the Registrant and Albert A. Notini.
10.20(i)+	Employment letter dated December 23, 2004, by and between the Registrant and Ellen B. Richstone.

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10.21(j)+	Summary of 2004 Executive Bonus Plan
10.22(k)+	Form of Stock Option Agreement under the 1997 Stock Incentive Plan.
10.23(k)+	Form of Director and Officer Indemnity Agreement.
14.1(g)	Code of Business Conduct and Ethics.
21.1(g)	Subsidiaries of the Registrant.
23.1*	Consent of Ernst & Young LLP.
31.1*	Certificate of Sonus Networks, Inc. Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certificate of Sonus Networks, Inc. Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certificate of Sonus Networks, Inc. Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2*	Certificate of Sonus Networks, Inc. Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

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- (a) Incorporated by reference to the Registrant's Registration Statement on Form S-4 (file No. 333-52682).
  - (b) Incorporated by reference to the Registrant's Registration Statement on Form S-1 (file No. 333-32206).
  - (c) Incorporated by reference from the Registrant's Form 10-K (file No. 000-30229), filed March 28, 2002 with the SEC.
  - (d) Attached as Exhibit (a)(1) to Tender Offer Statement on Schedule TO (file No. 005-60815), filed October 16, 2002 with the SEC, and subsequently amended by Amendment No. 1, filed on October 17, 2002, Amendment No. 2, filed on November 12, 2002, and Amendment No. 3, filed on November 26, 2002.
  - (e) Incorporated by reference from the Registrant's Form 10-K (file No. 000-30229), filed March 19, 2003 with the SEC.
  - (g) Incorporated by reference from the Registrant's Form 10-K (file No. 000-30229), filed March 15, 2004 with the SEC.
  - (h) Incorporated by reference from the Registrant's Amendment No. 1 to Form 10-K/A (file No. 000-30229), filed July 28, 2004 with the SEC.
  - (i) Incorporated by reference from the Registrant's Form 8-K (file No. 000-30229), filed January 12, 2005 with the SEC.
  - (j) Incorporated by reference from the Registrant's Form 10-Q (file No. 000-30229), filed November 9, 2004 with the SEC.
  - (k) Incorporated by reference from the Registrant's Form 10-Q (file No. 000-30229), filed August 20, 2004 with the SEC.
- \* Filed herewith.
- + Management contract or compensatory plan or arrangement filed in response to Item 15(a)(3) of the Instructions to the Annual Report on Form 10-K.
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## QuickLinks

### [TABLE OF CONTENTS](#)

#### [PART I](#)

##### [ITEM 1. BUSINESS.](#)

##### [Additional Information](#)

##### [ITEM 2. PROPERTIES.](#)

##### [ITEM 3. LEGAL PROCEEDINGS.](#)

##### [ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS.](#)

#### [PART II](#)

##### [ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES.](#)

##### [ITEM 6. SELECTED FINANCIAL DATA](#)

##### [ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS](#)

#### [RISK FACTORS](#)

##### [SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS](#)

##### [ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.](#)

##### [ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA](#)

##### [ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.](#)

##### [ITEM 9A. CONTROLS AND PROCEDURES](#)

##### [ITEM 9B. OTHER INFORMATION](#)

#### [PART III](#)

##### [ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT.](#)

##### [ITEM 11. EXECUTIVE COMPENSATION.](#)

##### [ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS.](#)

##### [ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS.](#)

##### [ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES.](#)

#### [PART IV](#)

##### [ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES.](#)

#### [SIGNATURES](#)

##### [Management's Report on Internal Control Over Financial Reporting](#)

##### [SONUS NETWORKS, INC. INDEX TO CONSOLIDATED FINANCIAL STATEMENTS](#)

##### [Report of Independent Registered Public Accounting Firm](#)

##### [Report of Independent Registered Public Accounting Firm](#)

##### [SONUS NETWORKS, INC. Consolidated Balance Sheets \(In thousands, except share data\)](#)

##### [SONUS NETWORKS, INC. Consolidated Statements of Operations \(In thousands, except per share data\)](#)

##### [SONUS NETWORKS, INC. Consolidated Statements of Stockholders' Equity](#)

##### [SONUS NETWORKS, INC. Consolidated Statements of Cash Flows \(In thousands\)](#)

##### [SONUS NETWORKS, INC. Notes to Consolidated Financial Statements](#)

##### [EXHIBIT INDEX](#)

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the Registration Statements (Forms S-3 Nos. 333-61940 and 333-66982 and Forms S-8 Nos. 333-54932, 333-53970, 333-43334 and 333-105215) of Sonus Networks, Inc. and in the related Prospectuses of our reports dated March 14, 2005, with respect to the consolidated financial statements of Sonus Networks, Inc., Sonus Networks, Inc. management's assessment of the effectiveness of internal control over financial reporting, and the effectiveness of internal control over financial reporting of Sonus Networks, Inc. included in this Annual Report (Form 10-K) for the year ended December 31, 2004.

/s/ Ernst & Young LLP

Boston, Massachusetts  
March 14, 2005

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## QuickLinks

[Exhibit 23.1](#)

**CERTIFICATION PURSUANT TO  
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Hassan M. Ahmed, Chief Executive Officer and Chairman of the Board of Directors, of Sonus Networks, Inc., certify that:

1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2004 ("Annual Report") of Sonus Networks, Inc. (the "Registrant");
2. Based on my knowledge, this Annual Report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Annual Report;
3. Based on my knowledge, the financial statements, and other financial information included in this Annual Report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this Annual Report;
4. The Registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this Annual Report is being prepared;
  - (b) Designed such internal control over financial reporting or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this Annual Report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this Annual Report based on such evaluation; and
  - (d) Disclosed in this Annual Report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's fourth fiscal quarter that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
5. The Registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of the Registrant's board of directors:
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal control over financial reporting.

Date: March 15, 2005

/s/ HASSAN M. AHMED

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Hassan M. Ahmed  
Chief Executive Officer and Chairman of the Board of Directors  
(Principal Executive Officer)

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QuickLinks

[EXHIBIT 31.1](#)

**CERTIFICATION PURSUANT TO  
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Ellen B. Richstone, Chief Financial Officer, of Sonus Networks, Inc., certify that:

1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2004 ("Annual Report") of Sonus Networks, Inc. (the "Registrant");
2. Based on my knowledge, this Annual Report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Annual Report;
3. Based on my knowledge, the financial statements, and other financial information included in this Annual Report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this Annual Report;
4. The Registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this Annual Report is being prepared;
  - (b) Designed such internal control over financial reporting or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this Annual Report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this Annual Report based on such evaluation; and
  - (d) Disclosed in this Annual Report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's fourth fiscal quarter that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
5. The Registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of the Registrant's board of directors:
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal control over financial reporting.

Date: March 15, 2005

/s/ ELLEN B. RICHSTONE

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Ellen B. Richstone  
Chief Financial Officer  
(Principal Financial Officer)

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QuickLinks

[EXHIBIT 31.2](#)

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of Sonus Networks, Inc. (the "Company") for the period ended December 31, 2004 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Hassan M. Ahmed, Chief Executive Officer and Chairman of the Board of Directors of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 15, 2005

/s/ HASSAN M. AHMED

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Hassan M. Ahmed  
*Chief Executive Officer and Chairman of the Board of Directors*  
*(Principal Executive Officer)*

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QuickLinks

[EXHIBIT 32.1](#)

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of Sonus Networks, Inc. (the "Company") for the period ended December 31, 2004 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Ellen B. Richstone, Chief Financial Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 15, 2005

/s/ ELLEN B. RICHSTONE

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Ellen B. Richstone  
*Chief Financial Officer*  
*(Principal Financial Officer)*

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QuickLinks

[EXHIBIT 32.2](#)