

TERADYNE, INC  
Form 10-K  
February 28, 2008

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, D.C. 20549

**FORM 10-K**

ANNUAL REPORT

PURSUANT TO SECTIONS 13 OR 15(d)

OF THE SECURITIES EXCHANGE ACT OF 1934

(MARK ONE)

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

For the fiscal year ended December 31, 2007

OR

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

Commission file number 001-06462

**TERADYNE, INC.**

(Exact Name of Registrant as Specified in Its Charter)

MASSACHUSETTS  
(State or Other Jurisdiction of

Incorporation or Organization)

04-2272148  
(I.R.S. Employer

Identification Number)

600 RIVERPARK DRIVE

NORTH READING, MASSACHUSETTS

01864

Edgar Filing: TERADYNE, INC - Form 10-K

(Address of Principal Executive Offices)

(Zip Code)

Registrant's telephone number, including area code: (978) 370-2700

**Securities registered pursuant to Section 12(b) of the Act:**

| Title of Each Class                       | Name of Each Exchange on Which Registered |
|---|---|
| Common Stock, par value \$0.125 per share | New York Stock Exchange                   |

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

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes  No

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 in any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act (check one):

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The aggregate market value of the voting stock held by non-affiliates of the registrant as of June 29, 2007 was approximately \$3.3 billion based upon the closing price of the registrant's Common Stock on the New York Stock Exchange on that date.

The number of shares outstanding of the registrant's only class of Common Stock as of February 22, 2008 was 174,344,112 shares.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's proxy statement in connection with its 2008 annual meeting of shareholders are incorporated by reference into Part III.

---

TERADYNE, INC.

FORM 10-K

PART I

**Item 1: Business**

We are a leading global supplier of automatic test equipment.

Our automatic test equipment products and services include:

semiconductor test ( Semiconductor Test );

circuit-board test and inspection systems, military/aerospace ( Mil/Aero ) test instrumentation and systems and automotive diagnostic and test systems ( Systems Test Group )

On January 24, 2008, we completed our acquisition of Nextest Systems Corporation ( Nextest ) for an estimated net purchase price of \$325 million. This estimated purchase price is net of the cash acquired and includes the fair value of fully vested employee equity instruments and transaction costs. Nextest designs, develops, manufactures, sells and services low-cost, high throughput automated test equipment systems for the semiconductor industry. Nextest competes in the flash memory, flash card, and flash memory based system-on-chip ( SOC ) markets. Their products are used to test integrated circuits such as microcontrollers, image sensors, smart cards and field programmable logic devices. Nextest will be included within our Semiconductor Test segment. See Note U: Subsequent Events in Notes to the Consolidated Financial Statements for further discussion of the acquisition.

On August 1, 2007, we completed the sale of our broadband test products business ( Broadband Test Division ), that provides test systems for testing lines and qualifying lines for Digital Subscriber Line ( DSL ) telephone networks, to Tollgrade Communications, Inc. ( Tollgrade ).

On November 30, 2005, we completed the sale of substantially all of the assets and certain of the liabilities of our interconnection systems products business that designs and manufactures backplane systems, printed circuit boards and high-speed, high-density connectors ( Connection Systems ), including the capital stock of our wholly-owned subsidiaries, Teradyne Connection Systems (Malaysia) Sdn. Bhd., Teradyne Connection Sys. De Mexico S.A. de C.V. and Teradyne Ireland Ltd., to Amphenol Corporation pursuant to an asset and stock purchase agreement, dated as of October 10, 2005, between Teradyne and Amphenol, as amended.

In accordance with Statement of Financial Accounting Standards ( SFAS ) No. 144, Accounting for the Impairment or Disposal of Long-Lived Assets ( SFAS 144 ), we are reporting Connection Systems and Broadband Test Division as discontinued operations in the consolidated financial statements for all periods presented. See Note E: Discontinued Operations in Notes to Consolidated Financial Statements for further discussion of the Connection Systems and Broadband Test Division divestitures. Unless indicated otherwise, amounts provided throughout this Form 10-K relate to continuing operations only.

On March 7, 2007, we purchased in-process enabling test technology and hired certain engineers from MOSAID Technologies Inc. for \$17.6 million, which includes \$0.6 million in fees directly related to the acquisition. Of the purchase price, \$16.7 million has been allocated to in-process research and development and therefore has been immediately charged to the statement of operations. The balance of the purchase price has been allocated to acquired workforce and fixed assets.

This technology was purchased for the development of a new semiconductor test product. As of the acquisition date, the technology had not reached technical feasibility, had no alternative future use and its fair value was estimable with reasonable reliability, and therefore has been classified as in-process research and development. The technology is unique to the semiconductor test market and requires significant development. The estimated fair value of the in-process technology was determined based on the use of a discounted cash flow model using an income approach. Estimated cash flows were probability adjusted to take into account the stage

of completion and the risks surrounding successful development and commercialization of the in-process technology. Such a valuation requires significant estimates and assumptions including but not limited to determining the timing and estimated costs to complete the in-process project as well as the estimated cash flows to be generated as a result of completing the project development.

Statements in this Annual Report on Form 10-K which are not historical facts, or so called forward-looking statements, are made pursuant to the safe harbor provisions of Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act ). Investors are cautioned that all forward-looking statements involve risks and uncertainties and are qualified in their entirety by reference to the risk factors described in Item 1A: Risk Factors and those risks detailed in our filings with the Securities and Exchange Commission (the SEC ).

## **Investor Information**

We are a Massachusetts corporation incorporated on September 23, 1960. We are subject to the informational requirements of the Exchange Act. We file periodic reports, proxy statements and other information with the SEC. Such reports, proxy statements and other information may be obtained by visiting the Public Reference Room of the SEC at 100 F Street, N.E., Washington, DC 20549 or by calling the SEC at 1-800-SEC-0330. In addition, 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.

You can access financial and other information, including the charters of our Audit Committee, Compensation Committee and Nominating and Corporate Governance Committee, our Corporate Governance Guidelines and Standards of Business Conduct, by clicking the Investors link on our website at [www.teradyne.com](http://www.teradyne.com). We make available, free of charge, copies of our filings with the SEC, including our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act through our website as soon as reasonably practicable after filing such material electronically or otherwise furnishing it to the SEC.

## **Products**

### ***Semiconductor Test***

We design, manufacture, sell and support Semiconductor Test products and services on a world wide basis. The test systems we provide are used both for wafer level and device package testing. These chips are used in automotive, communications, consumer, computer and electronic game applications, among others. Semiconductor devices span a broad range of functionality, from very simple low-cost devices such as appliance microcontrollers, operational amplifiers or voltage regulators to complex digital signal processors and microprocessors. Semiconductor Test products and services are sold to Integrated Device Manufacturers ( IDMs ) that integrate the fabrication of silicon wafers into their business, Fabless companies that outsource the manufacturing of silicon wafers, Foundries that cater to the processing and manufacturing of silicon wafers, and subcontractors ( Subcons ) that provide test and assembly services for the final packaged devices to both Fabless companies and IDMs. Fabless companies perform the design of integrated circuits without manufacturing capabilities, and use Foundries for wafer manufacturing and Subcons for test and assembly. These customers obtain the overall benefit of both comprehensively testing devices and reducing the total costs associated with testing by using our Semiconductor Test systems to:

improve and control product quality;

measure and improve product performance;

reduce time to market; and

increase production yields.

We have made significant investments in the last several years to introduce the new FLEX Test Platform Architecture. The FLEX Test Platform Architecture advances our core technologies to produce test equipment

that is designed for high efficiency multi-site testing. Multi-site testing involves the simultaneous testing of more devices and functions in parallel. Leading semiconductor manufacturers are using multi-site testing to significantly improve their Cost of Test economics. The FLEX Test Platform architecture addresses customer requirements through four key capabilities:

- 1) A high efficiency multi-site architecture that eliminates tester overhead such as instrument setup, synchronization and data movement, and signal processing;
- 2) The IG-XL software operating system which provides fast program development, including instant conversion from single to multi-site test;
- 3) Broad technology coverage by instruments designed to cover the range of test parameters, coupled with a Universal Slot test head design that allows easy test system reconfiguration to address changing test needs; and
- 4) An open architecture design (OpenFLEX) which complements the FLEX Test Platform's broad set of high-density instrumentation by allowing third parties and customers to create customized test instrumentation that can further enhance system performance and test economics.

FLEX Test Platform purchases are being made by IDMs, Subcons and Fabless customers. The FLEX Test Platform has become a widely used test solution at Subcons and test houses by providing versatile testers that can handle the widest range of devices, allowing Subcons to leverage their capital investments. The broad consumer, automotive and broadband markets have been driving most of the device volume growth in the semiconductor industry. These markets include cell phones, set top boxes, HDTVs, game controllers, computer graphics, and automotive controllers to name a few. These end use markets are continuing to be a strong growth driver for the FLEX Test Platform family of products because they require a wide range of technologies and instrument coverage. The FLEX Test Platform has an installed base of more than 1,500 customer systems to date.

Our J750 test system shares the IG-XL software environment with the family of FLEX Test Platform systems. The J750 is designed to address the highest volume semiconductor devices such as microcontrollers that are central to the functionality of almost every consumer electronics product, from small appliances to automotive engine controllers. J750 test systems combine compact packaging, high throughput and ease of production test. These benefits are possible due to the high level of integration in the design. A single circuit board in the J750 test system provides up to 64 digital input/output channels. We extended the J750 platform technology to create the IP750 Image Sensor test system. The IP750 is focused on testing image sensor devices used in digital cameras and other imaging products. The J750 platform has an installed base of over 2,500 systems and it continues to grow.

We continued to invest in the J750 platform with a set of J750Ex instrumentation that was released in 2007, with additional instrument releases planned for 2008. These instruments are bringing new capabilities to existing market segments and expanding the J750 platform to critical new devices that include high end microcontroller, LCD drivers, and the latest generation of cameras. These new J750Ex instruments are designed to be compatible with our customer's existing hardware and software investments and deliver industry leading parallel test economics while providing customers with flexibility to address next generation functional requirements.

### ***Systems Test Group***

Our Systems Test Group segment is comprised of 3 business units: Military/Aerospace ( Mil/Aero ) Test, Commercial Board Test, and Diagnostic Solutions.

### ***Mil/Aero Test***

Our expertise in the test and diagnosis of printed circuit boards ( PCB ) and subsystems has proven to be essential in supporting the ever-demanding military and aerospace markets. Our test solutions for these markets include high-performance systems, instruments and software solutions that manufacturers and repair depots depend on to ensure the readiness of commercial and military electronic systems.

New programs from tactical aircraft to missile systems, as well as widespread enhancement programs, continue to fuel the demand for high performance test systems. We are a leading provider of test instrumentation and systems with performance well suited to the demands of military/aerospace electronics manufacturers and repair depots worldwide. Success in this market is illustrated by our penetration into major Department of Defense programs across all U.S. military service branches and many allied military services worldwide.

#### ***Commercial Board Test***

We also produce a variety of test and inspection systems sold to many of the industry's leading PCB original equipment manufacturers ( OEMs ) and Subcons around the world. Because today's PCBs and electronic assemblies handle more functionality than ever before, they contain highly integrated circuits and more complex components that operate faster, use lower voltages and are more susceptible to assembly problems. Our assembly test and inspection systems combine the advanced diagnostic hardware and operating software needed to ensure product quality, sustain high manufacturing yield, verify functional operation, diagnose faults and effectively reduce manufacturing costs. Our products are sold to the electronics manufacturers of cell phones, servers, computers, Internet switches, automobiles and military avionics systems worldwide.

#### ***In-Circuit Test Systems***

We manufacture in-circuit test ( ICT ) systems that are used to assess electrical interconnections, verify interoperation and find faulty circuits aboard fully assembled and soldered PCBs. Fast, accurate and cost-effective diagnostic capabilities are hallmark features of our ICT systems, including the TestStation and Spectrum product families used in a variety of in-line, high-volume PCB test applications. These systems are also used in sample test environments for prototype testing and early-stage PCB design and development. Supporting technologies such as our patented SafeTest technology allow TestStation users to safely troubleshoot the low-voltage components and interconnects commonly found in battery-powered portable consumer electronics and low-power commercial equipment. In addition to standard ICT equipment, we offer combinational test platforms and handler-ready in-line test systems for high-volume board manufacturing.

#### ***Imaging Inspection Systems***

PCB assembly trends are expected to force board manufacturers to reassess their inspection strategies. Due to the growing use of highly integrated system on chips and higher density double-sided boards, a high percentage of all solder connections are invisible to optical inspection systems. Combine this growing loss of visual and electrical access with the difficulties associated with detecting lead-free solder voids on double-sided boards, and the inspection problem is compounded. Our newly introduced Xstation MX, a fully Automated X-Ray Inspection ( AXI ) system, addresses these problems when inspecting PCBs for manufacturing defects, including improper component placement and orientation, electrical opens and shorts and a host of other board quality issues. The Xstation MX uses ClearVue, a patented three-dimensional X-Ray imaging technique, to more accurately detect subtle defects and manufacturing flaws, even as board complexities grow.

#### ***Diagnostic Solutions***

We provide electronic test and diagnostic systems to the automotive OEMs and their major subcontractors. The systems are used throughout the vehicle's lifecycle from design through manufacture to after sale service and consist of highly integrated software and hardware components. As the number and complexity of electronic systems and embedded software proliferate in vehicles, the ability to manufacture and service those vehicles becomes increasingly dependent on electronic diagnostic equipment. Our Diagnostic Solutions products fall into two categories:

#### ***OEM Service Diagnostics***

OEM dealer service technicians use our systems to find faults in vehicles in use by their customers, and to reduce OEM warranty costs. Historically, the focus has been on fixing faults in the service bay, but is now growing to include the programming of vehicle software.

*Vehicle Configuration and Test Solutions*

Our VCATS products are used on automotive and major automotive subassembly production lines. These products connect to the vehicle to test and program or configure the electronic systems on vehicles. These vehicle electronic systems include engine control modules and subsystems such as braking, navigation and climate control. Our VCATS products are also able to link to an OEM's manufacturing control system in order to provide statistical quality reports to operators and management.

Both VCATS and OEM Service Diagnostics products utilize our GRADE-X authoring software enabling the manufacturing and service phases of vehicle development. Diagnostics for electronic modules and systems used on vehicles of our customers can be developed and written using the GRADE-X authoring software. The actual diagnosis of a customer's vehicle occurs in the OEM dealer's service bay utilizing a runtime portion of the software to facilitate the service and repair of the vehicle.

*Discontinued Operations*

On August 1, 2007, our Broadband Test Division business was sold to Tollgrade Communications, Inc. This business provided test systems for testing lines and qualifying lines for DSL telephone networks. On November 30, 2005, our Connection Systems business was sold to Amphenol Corporation. This business designed and manufactured high-performance connection systems including backplane systems, printed circuit boards and high-speed, high-density connectors. Connection Systems and Broadband Test Division have been reflected as discontinued operations in the accompanying financial statements.

*Summary of Net Revenue by Reportable Segment*

Our two reportable segments accounted for the following percentages of consolidated net revenue for each of last three years:

|                    | 2007        | 2006        | 2005        |
|--------------------|-------------|-------------|-------------|
| Semiconductor Test | 80%         | 80%         | 78%         |
| Systems Test Group | 20          | 20          | 22          |
| <b>Total</b>       | <b>100%</b> | <b>100%</b> | <b>100%</b> |

During the third quarter of 2007, our internal management reporting changed to better align with our operational management structure, resulting in a change in our reportable segments. Segment reporting has been restated for all periods presented to reflect this change. See Note S. Operating Segments and Geographic Information in Notes to Consolidated Financial Statements for more information.

**Sales and Distribution**

Prices for our systems can reach \$2 million or more. In 2007, 2006, and 2005, no single customer accounted for more than 10% of our consolidated net revenue. In each of the years 2007, 2006, and 2005, our three largest customers in aggregate accounted for 16%, 18%, and 18% of consolidated net revenue, respectively.

Direct sales to United States government agencies accounted for 5%, 3% and 3% of consolidated net revenue in 2007, 2006 and 2005, respectively. Approximately 23%, 14%, and 15% of Systems Test Group's revenue in 2007, 2006 and 2005, respectively, was to United States government agencies and 16%, 13% and 17% of Systems Test Group's revenue in 2007, 2006 and 2005, respectively, was to government contractor customers.

We have sales and service offices located throughout North America, Asia, and Europe, as our customers outside the United States are located primarily in these geographic areas. We sell in these areas predominantly through a direct sales force. Our manufacturing activities are primarily conducted through subcontractors and outsourced contract manufacturers with a significant operation concentrated in China.

Sales to customers outside the United States accounted for 77%, 77%, and 78% of consolidated net revenue in 2007, 2006 and 2005, respectively. Sales to customers located in Singapore were 15%, 11%, and 14% of consolidated net revenue in 2007, 2006, and 2005, respectively. Sales to customers located in Taiwan were 13%, 14%, and 13% of consolidated net revenue in 2007, 2006 and 2005, respectively. Sales to customers located in Japan were 12%, 12% and 9% of consolidated net revenue in 2007, 2006 and 2005, respectively. Sales are attributed to geographic areas based on the location of the customer site.

See also Item 1A: Risk Factors and Note G: Financial Instruments in Notes to Consolidated Financial Statements.

### Competition

We face significant competition throughout the world in each of our reportable segments. These competitors include, among others, Advantest Corporation, Verigy Inc., Credence Systems Corporation, LTX Corporation and Eagle Test Systems, Inc. Some of our competitors have substantially greater financial and other resources to pursue engineering, manufacturing, marketing and distribution of their products. We also face competition from internal suppliers at several of our customers. Some of our competitors have introduced or announced new products with certain performance characteristics which may be considered equal or superior to those we currently offer. We expect our competitors to continue to improve the performance of their current products and to introduce new products or new technologies that provide improved cost of ownership and performance characteristics. See also Item 1A: Risk Factors.

### Backlog

At December 31, 2007 and 2006, our backlog of unfilled orders in our two reportable segments was as follows:

|                    | 2007          | 2006     |
|--------------------|---------------|----------|
|                    | (in millions) |          |
| Semiconductor Test | \$ 236.2      | \$ 212.4 |
| Systems Test Group | 102.5         | 120.2    |
|                    | \$ 338.7      | \$ 332.6 |

Of the backlog at December 31, 2007, approximately 97% of the Semiconductor Test backlog and 96% of Systems Test Group backlog is expected to be delivered in 2008.

Customers may delay delivery of products or cancel orders suddenly and without significant notice, subject to possible cancellation penalties. Due to possible customer changes in delivery schedules and cancellation of orders, our backlog at any particular date is not necessarily indicative of the actual sales for any succeeding period. Delays in delivery schedules and/or cancellations of backlog during any particular period could have a material adverse effect on our business, financial condition, and results of operations.

### Raw Materials

Our products contain electronic and mechanical components that are provided by a wide range of suppliers. Certain of these components are standard products, while others are manufactured to our specifications. We can experience occasional delays in obtaining timely delivery of certain items. While the majority of our components are available from multiple suppliers, certain items are obtained from sole sources. We may experience a temporary adverse impact if any of our sole source suppliers delays or ceases to deliver products.



## Intellectual Property and Licenses

The development of our products, both hardware and software, is based in significant part on proprietary information, our brands and technology. We protect our rights in proprietary information, brands and technology through various methods, such as:

patents;

copyrights;

trademarks;

trade secrets;

standards of business conduct and related business practices; and

technology license agreements, software license agreements, non-disclosure agreements, employment agreements, and other agreements.

However, these protections might not be effective in all circumstances. Competitors might independently develop similar technology or exploit our proprietary information and our brands in countries where we lack enforceable intellectual property rights or where enforcement of such rights through the legal system provides an insufficient deterrent. Also, intellectual property protections can lapse or be invalidated through appropriate legal processes. We do not believe that any single piece of intellectual property or proprietary rights is essential to our business.

## Employees

As of December 31, 2007, we employed approximately 3,600 people. Since the inception of our business, we have experienced no work stoppages or other labor disturbances. We have no collective bargaining contracts.

## Engineering and Development Activities

The highly technical nature of our products requires a large and continuing engineering and development effort. Engineering and development expenditures for the years ended December 31, 2007, 2006 and 2005 were \$204.3 million, \$202.4 million and \$216.4 million, respectively. These expenditures amounted to approximately 19%, 15% and 21% of consolidated net revenue in 2007, 2006 and 2005, respectively.

## Environmental Affairs

We are subject to various federal, state, and local government laws and regulations relating to the protection of employee health and safety and the environment. We accrue for all known environmental liabilities when it becomes probable that we will incur cleanup costs and those costs can reasonably be estimated. The amounts accrued do not cover sites that are in the preliminary stages of investigation. Estimated environmental costs are not expected to materially affect the financial position or results of our operations in future periods. However, estimates of future costs are subject to change due to protracted cleanup periods and changing environmental remediation laws and regulations.

## CEO Certification

An annual CEO certification was filed with the New York Stock Exchange on May 24, 2007 in accordance with its listing standards.

---

**OUR EXECUTIVE OFFICERS**

Pursuant to General Instruction G(3) of Form 10-K, the following table is included as an unnumbered item in Part I of this Annual Report on Form 10-K in lieu of being included in the Proxy Statement for the Annual Meeting of Shareholders. The table sets forth the names of all of our executive officers and certain other information relating to their positions held with Teradyne and other business experience. Our executive officers do not have a specific term of office but rather serve at the discretion of the Board of Directors.

| <b>Executive Officer</b> | <b>Age</b> | <b>Position</b>                                       | <b>Business Experience For The Past 5 Years</b>   |
|--------------------------|------------|---|---|
| Michael A. Bradley       | 59         | Chief Executive Officer and President                 | Chief Executive Officer since 2004; President of Teradyne since 2003; President of Semiconductor Test from 2001 to 2003; Chief Financial Officer of Teradyne from 1999 to 2001; Vice President of Teradyne from 1992 to 2001.   |
| Gregory R. Beecher       | 50         | Vice President, Chief Financial Officer and Treasurer | Vice President and Chief Financial Officer of Teradyne since 2001 and Treasurer of Teradyne from 2003 to 2005 and since 2006; Partner at PricewaterhouseCoopers LLP from 1993 to 2001.  |
| Eileen Casal             | 49         | Vice President, General Counsel and Secretary         | Vice President, General Counsel and Secretary of Teradyne since 2003; Vice President, General Counsel and Corporate Secretary of GSI Lumonics Inc. from 2001 until 2003; Vice President, General Counsel and Corporate Secretary of Adero, Inc. from 2000 until 2001; Vice President, General Counsel and Assistant Clerk of Teradyne, from 1999 to 2000; from 1986 until 1999, Ms. Casal held a number of legal positions at Stratus Computer, Inc. including Vice President, General Counsel and Assistant Clerk. |
| Jeffrey R. Hotchkiss     | 60         | President of Systems Test Group                       | President of Systems Test Group since 2007; President of Assembly Test Systems from 2004 to 2007, and President of Diagnostic Solutions from 2005 to 2007; Director, Chief Executive Officer and President of Empirix, Inc. from 2000 to 2004; Chief Financial Officer of Teradyne from 1997 to 1999; Vice President of Teradyne from 1990 to 1999.   |
| Mark E. Jagiela          | 47         | President of Semiconductor Test                       | President of Semiconductor Test since 2003; Vice President of Teradyne since 2001; General Manager of Teradyne's VLSI Test Division from 2000 to 2001; VLSI Test Division Engineering Manager from 1999 to 2000; Japan Division General Manager from 1991 to 1999.  |

**Item 1A: Risk Factors.**  
**Risks Associated with Our Business**

*We are subject to intense competition.*

We face significant competition throughout the world in each of our reportable segments. Some of our competitors have substantial financial and other resources to pursue engineering, manufacturing, marketing and distribution of their products. We also face competition from internal suppliers at several of our customers. Some of our competitors have introduced or announced new products with certain performance characteristics which

may be considered equal or superior to those we currently offer. We expect our competitors to continue to improve the performance of their current products and to introduce new products or new technologies that provide improved cost of ownership and performance characteristics. New product introductions by competitors could cause a decline in revenues or loss of market acceptance of our products. Moreover, increased competitive pressure could lead to intensified price based competition, which could materially adversely affect our business, financial condition and results of operations.

***Our business is dependent on the current and anticipated market for electronics, which historically has been highly cyclical.***

Our business and results of operations depend in significant part upon capital expenditures of manufacturers of semiconductors and other electronics, which in turn depend upon the current and anticipated market demand for those products. The market demand for electronics is impacted by economic slowdowns. Historically, the electronics and semiconductor industry has been highly cyclical with recurring periods of over-supply, which often have had a severe negative effect on demand for test equipment, including systems we manufacture and market. We believe that the markets for newer generations of electronic products such as those that we manufacture and market will also be subject to similar fluctuations. We are dependent on the timing of orders from our customers, and the deferral or cancellation of previous customer orders could have an adverse effect on our results of operations. We cannot assure that the level of revenues or new orders for a calendar quarter will be sustained in subsequent quarters. In addition, any factor adversely affecting the electronics industry or particular segments within the electronics industry may adversely affect our business, financial condition and operating results.

***Our operating results are likely to fluctuate significantly.***

Our annual operating results are affected by a wide variety of factors that could materially adversely affect revenues and profitability.

The following factors are expected to impact future operations:

competitive pressures on selling prices;

our ability to introduce and the market acceptance of new products in 2008 and beyond;

changes in product revenue mix resulting from changes in customer demand;

the level of orders received which can be shipped in a quarter resulting from the tendency of customers to wait until late in a quarter to commit to purchase due to capital expenditure approvals and constraints occurring at the end of a quarter, or the hope of obtaining more favorable pricing from a competitor seeking the business;

engineering and development investments relating to new product introductions in 2008 and beyond, and the expansion of manufacturing, outsourcing and engineering operations in Asia;

the ability of our suppliers and subcontractors to meet product quality or delivery requirements needed to satisfy customer orders for our products, especially if product demand increases rapidly;

provisions for excess and obsolete inventory relating to the lack of demand for and the discontinuance of products;

impairment charges for certain long-lived assets; and

parallel or multi-site testing could lead to a decrease in the ultimate size of the market for our products.

## Edgar Filing: TERADYNE, INC - Form 10-K

As a result of the foregoing and other factors, we have and may continue to experience material fluctuations in future operating results on a quarterly or annual basis which could materially and adversely affect our business, financial condition, operating results and stock price.

***We are subject to risks of operating internationally.***

A significant portion of our total revenue is derived from customers outside the United States. Our international sales and operations are subject to significant risks and difficulties, including:

unexpected changes in legal and regulatory requirements affecting international markets;

changes in tariffs and exchange rates;

social, political and economic instability, acts of terrorism and international conflicts;

difficulties in protecting intellectual property;

difficulties in accounts receivable collection;

cultural differences in the conduct of business;

difficulties in staffing and managing international operations; and

compliance with customs regulations.

In addition, an increasing portion of our products and the products we purchase from our suppliers are sourced or manufactured in foreign locations, including China, and a large portion of the devices our products test are fabricated and tested by foundries and subcontractors in Taiwan, Singapore, China and other parts of Asia. As a result, we are subject to a number of economic and other risks, particularly during times of political or financial instability in these regions. Disruption of manufacturing or supply sources in these international locations could materially adversely impact our ability to fill customer orders and potentially result in lost business.

***If we fail to develop new technologies to adapt to our customers' needs and if our customers fail to accept our new products, our revenues will be adversely affected.***

We believe that our technological position depends primarily on the technical competence and creative ability of our engineers. In a rapidly evolving market, such as ours, the development of new technologies, commercialization of those technologies into products and market acceptance and customer demand for those products are critical to our success. Successful product development, introduction and acceptance depend upon a number of factors, including:

new product selection;

ability to meet customer requirements;

development of competitive products by competitors;

Edgar Filing: TERADYNE, INC - Form 10-K

timely and efficient completion of product design;

timely and efficient implementation of manufacturing and manufacturing processes;

timely remediation of product performance issues, if any, identified during testing;

assembly processes and product performance at customer locations;

differentiation of our products from our competitors' products; and

management of customer expectations concerning product capabilities and product life cycles.

***If our suppliers do not meet product or delivery requirements, we could have reduced revenues and earnings.***

Certain components, including semiconductor chips, may be in short supply from time to time because of high industry demand or the inability of some vendors to consistently meet our quality or delivery requirements. Approximately 30% of material purchases require some custom work where having multiple suppliers would be cost prohibitive. If any of our suppliers were to cancel contracts or commitments or fail to meet the quality or delivery requirements needed to satisfy customer orders for our products, we could lose time-sensitive customer orders and have significantly decreased revenues and earnings, which would have a material adverse effect on

our business, results of operations and financial condition. In addition, we rely on contract manufacturers for certain subsystems used in our products, and our ability to meet customer orders for those products depends upon the timeliness and quality of the work performed by these subcontractors, over whom we do not exercise any control.

To a certain extent, we are dependant upon the ability of our suppliers and contractors to help meet increased product or delivery requirements. Many of our suppliers have implemented cost reduction strategies, just as we have, to address the slowdowns in the market. It may be difficult for these suppliers to meet delivery requirements in a period of rapid growth, therefore impacting our ability to meet our customers demands.

We rely on the financial strength of our suppliers. There can be no assurance that the loss of suppliers either as a result of financial viability, bankruptcy or otherwise will not have a material adverse effect on our business, results of operations or financial condition.

***Our operations may be adversely impacted if our outsourced contract manufacturers or service providers fail to perform.***

We depend on Flextronics International Ltd. ( Flextronics ) to manufacture and test our FLEX family of products from their facility in China. If for any reason Flextronics cannot provide us with these products in a timely fashion, or at all, we may not be able to sell these products to our customers until we enter a similar arrangement with an alternative contract manufacturer. If we experience a problem with our supply of products from Flextronics, it may take us significant time to either manufacture the product or find an alternate contract manufacturer, which could result in substantial expense and disruption to our business.

We have also outsourced a number of our general and administrative functions, including information technology, to reputable service providers, many of which are in foreign countries, sometimes impacting communication with them because of language and time difficulties. Their presence in foreign countries also increases the risk they could be exposed to political risk. Additionally, there may be difficulties encountered in coordinating the outsourced operations with existing functions and operations. If we fail in successfully coordinating and managing the outsourced service providers, it may cause an adverse affect on our operations which could result in a decline in our stock price.

***We may incur higher tax rates than we expect.***

We are subject to paying income taxes in the United States and various other countries where we operate. Our effective tax rate is dependent on where our earnings are generated and the tax regulations and the interpretation and judgment of administrative tax or revenue entities in the United States and such other countries. We have pursued a global tax strategy which could adversely be affected by our failure to expand operations or earnings in certain countries, the mix of earnings and tax rates in the countries where we operate, changes to tax laws or an adverse tax ruling by administrative entities. We are also subject to tax audits in the countries where we operate. Any material assessment resulting from an audit from an administrative tax or revenue entity could also negatively affect our financial results.

***We may continue to acquire new businesses or form strategic alliances in the future, and we may not always realize the benefits of such acquisitions.***

In January 2008, we acquired Nextest Systems Corporation. We may continue to acquire additional businesses, form strategic alliances or create joint ventures with third parties that we believe will complement or augment our existing businesses. If we acquire businesses or technologies, we may not be able to realize the benefit of acquiring such businesses if we are unable to successfully integrate it with our existing operations and company culture. We may have difficulty in developing, manufacturing and marketing the products of a newly acquired company that enhances the performance of our combined businesses or product lines to realize value from expected synergies. We cannot assure that, following an acquisition, we will achieve the revenue or net income levels that justify the acquisition. Additionally we may fund the acquisition of new businesses, strategic alliances or joint ventures by utilizing our cash, raising debt, issuing shares of our common stock, or by other means. The financing of such transactions may affect our stock price or significantly dilute our shareholders.

---

***We have taken measures to ensure that we are prepared to address slowdowns in the market for our products, which could have long-term negative effects on our business or impact our ability to adequately address a rapid increase in customer demand.***

We have taken, and continue to take, measures to ensure that we are prepared to address slowdowns in the market for our products. These measures include shifting more of our operations to lower cost regions, outsourcing manufacturing processes, divesting of certain businesses, implementing material cost reduction programs and reducing planned capital expenditures and expense budgets. We cannot assure that the measures we have taken will not impair our ability to effectively develop and market products, to remain competitive in the industries in which we compete, to operate effectively, to operate profitably during slowdowns or to effectively meet a rapid increase in customer demand. These measures may have long-term negative effects on our business by reducing our pool of technical talent, decreasing or slowing improvements in our products, making it more difficult to hire and retain talented individuals and to quickly respond to customers or competitors in an upward cycle.

***We may incur significant liabilities if we fail to comply with environmental regulations.***

We are subject to both domestic and international environmental regulations and statutory strict liability relating to the use, storage, discharge, site cleanup and disposal of hazardous chemicals used in our manufacturing processes. If we fail to comply with present and future regulations, or are required to perform site remediation, we could be subject to future liabilities or the suspension of production. Present and future regulations may also:

restrict our ability to expand facilities;

restrict our ability to ship certain products into the European Union or elsewhere;

require us to modify our operations logistics;

require us to acquire costly equipment; or

require us to incur other significant costs and expenses.

Pursuant to present regulations and agreements, we are conducting groundwater and subsurface assessment and monitoring and are implementing remediation and corrective action plans for facilities located in California, Massachusetts and New Hampshire which are no longer conducting manufacturing operations. As of December 31, 2007, we have not incurred material costs as result of the monitoring and remediation steps taken at the California, Massachusetts and New Hampshire sites.

On January 27, 2003, the European Union adopted the following directives: (i) the directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (the RoHS Directive ); and (ii) the directive on Waste Electrical and Electronic Equipment (the WEEE Directive ). The WEEE Directive became effective August 13, 2005 and the RoHS Directive became effective on July 6, 2006. Both the RoHS Directive and the WEEE Directive alter the form and manner in which electronic equipment is imported, sold and handled in the European Union. Other jurisdictions, such as China, have followed the European Union's lead in enacting legislation with respect to hazardous substances and waste removal. Ensuring compliance with the RoHS Directive, the WEEE Directive and similar legislation in other jurisdictions, and integrating compliance activities with our suppliers and customers could result in additional costs and disruption to operations and logistics and thus, could have a negative impact on our business, operations and financial condition.

***We currently are and in the future may be subject to litigation that could have an adverse effect on our business.***

From time to time, we may be subject to litigation or other administrative and governmental proceedings that could require significant management time and resources and cause us to incur expenses and, in the event of



an adverse decision, pay damages in an amount that could have a material adverse effect on our financial position or results of operations.

For example, in connection with our August 2000 acquisition of each of Herco Technology Corp. and Perception Laminates, Inc., a complaint was filed on or about September 5, 2001 by the former owners of those companies naming as defendants Teradyne and two of our then executive officers. Additionally, in 2001, we were designated as a potentially responsible party at a clean-up site in Los Angeles, California. This claim also arises out of our acquisition of Perception Laminates in August 2000. Prior to that date, Perception Laminates had itself acquired certain assets of Alco Industries Inc. under an asset purchase agreement dated October 20, 1992. These matters are further described in Item 3: Legal Proceedings.

***We have significant guarantees and indemnification obligations.***

From time to time we make guarantees to customers regarding the performance of our products and guarantee certain indebtedness, performance obligations or lease commitments of our subsidiary and affiliate companies. We also have agreed to provide indemnification to our officers, directors, employees and agents, to the extent permitted by law, arising from certain events or occurrences while the officer, director, employee or agent, is or was serving at our request in such capacity. If we become liable under any of these obligations, it could materially and adversely affect our business, financial condition and operating results. For additional information see Note K: Commitments and Contingencies Guarantees and Indemnification Obligations in Notes to Consolidated Financial Statements.

***If we are unable to protect our intellectual property, we may lose a valuable asset or may incur costly litigation to protect our rights.***

We protect the technology that is incorporated in our products ( IP ) in several ways, including through patent, copyright, and trade secret protection and by contractual agreement. However, even with these protections, our IP may still be challenged, invalidated or subject to other infringement actions. While we believe that our IP has value in the aggregate, no single element of our IP is in itself essential. If a significant portion of our IP is invalidated or ineffective, our business could be materially adversely affected. In addition, we receive notifications from time to time that we may be in violation of patents held by others. An assertion of patent infringement against us, if successful, could have a material adverse effect on our ability to sell our products, or require a significant use of management resources and necessitate a lengthy and expensive defense which could adversely affect our operating results.

***Our business may suffer if we are unable to attract and retain key employees.***

Competition for employees with skills we require is intense in the high technology industry. Our success will depend on our ability to attract and retain key technical employees. The loss of one or more key or other employees, a decrease in our inability to attract additional qualified employees, or the delay in hiring key personnel could each have a material adverse effect on our business, results of operations or financial condition.

***Our business is impacted by worldwide economic cycles, which are difficult to predict.***

Capital equipment providers in the electronics and semiconductor industries, such as Teradyne, have, in the past, been negatively impacted by sudden slowdowns in the global economies, and resulting reductions in customer capital investments. The duration of slowdowns in global economies and reductions in customer capital investments, which may adversely impact our business, are difficult to predict.

***Acts of war, terrorist attacks and the threat of domestic and international terrorist attacks may adversely impact our business.***

Acts of war and terrorist attacks may cause damage or disruption to our employees, facilities, customers, suppliers and distributors which could have a material adverse effect on our business, results of operation or

financial condition. As we, our outsourced manufacturing providers and our suppliers sell and manufacture products both in the United States and internationally, the threat of future terrorist attacks could lead to changes in security and operations at these locations which could increase our operating costs and which may adversely affect our business. Such conflicts may also cause damage or disruption to transportation and communication systems. We have completed some emergency preparedness planning and have a business continuity plan in case some of these events occur. However, we cannot be certain that our plans will be effective in the event of a disaster or other situation. All of these conditions make it difficult for us, and our customers, to accurately forecast and plan future business activities and could have a material adverse effect on our business, financial condition and results of operations.

***Provisions of our charter and by-laws and Massachusetts law make a takeover of Teradyne more difficult.***

During 2007, we made several important corporate governance changes, which included, declassification of our Board of Directors, adoption of majority voting standard for the election of our directors, and early termination of our shareholder rights plan. Despite these changes, there are still provisions in our basic corporate documents and under Massachusetts law that could discourage, delay or prevent a change in control, even if a change in control may be regarded as beneficial to some or all of our stockholders.

**Item 1B: *Unresolved Staff Comments.***

None.

**Item 2: *Properties***

The following table provides certain information as to our principal general offices and manufacturing facilities.

| Location                                | Operating Segment  | Major Activity+ | Approximate Square Feet of Floor Space |
|---|--|-----------------|--|
| <b>Properties Owned:</b>                |  |                 |  |
| North Reading, Massachusetts            | Semiconductor Test, Systems Test Group & Corporate Offices | 1-2-3-4-5       | 763,000(a)                             |
| Agoura Hills, California                | Semiconductor Test   | 3-5             | 240,000(b)                             |
| Kumamoto, Japan                         | Semiconductor Test   | 2-3-4-5         | 75,000                                 |
| <b>Subtotal of Owned Properties</b>     |  |                 | <b>1,078,000</b>                       |
| <b>Properties Leased:</b>               |  |                 |  |
| Westford, Massachusetts                 |  |                 | 230,000(c)                             |
| Woburn, Massachusetts                   | Semiconductor Test   | 2-6             | 69,000                                 |
| Shanghai, China                         | Semiconductor Test & Systems Test Group                    | 2-5-6           | 43,000                                 |
| Stockport, England                      | Systems Test Group (Diagnostic Solutions business unit)    | 2-3-4-5-6       | 75,000                                 |
| Cebu, Philippines                       | Semiconductor Test   | 2-6             | 64,000                                 |
| Agoura Hills, California                | Semiconductor Test   |                 | 59,000(d)                              |
| Bracknell, England                      | Semiconductor Test & Systems Test Group                    | 3-4-5           | 44,000(e)                              |
| Tai Yuan, Taiwan                        | Semiconductor Test & Systems Test Group                    | 5               | 43,000                                 |
| San Jose, California                    | Semiconductor Test   | 4-5             | 36,000                                 |
| <b>Subtotal of Leased Properties</b>    |  |                 | <b>663,000</b>                         |
| <b>Total Square Feet of Floor Space</b> |  |                 | <b>1,741,000</b>                       |

- + Major activities have been separated into the following categories: 1. Corporate Administration, 2. Sales Support and Manufacturing, 3. Engineering and Development, 4. Marketing, 5. Sales and Administration, and 6. Storage and Distribution.
- (a) One 200,000 square foot building in this 5 building campus is being marketed for sale. In 2008, Teradyne will begin to consolidate and relocate the operations in this building into the 4 remaining buildings on the campus. The consolidation is estimated to be complete by July of 2009.
- (b) Approximately 60,000 square feet are being marketed for lease.
- (c) This space consists of two buildings. One building is subleased and the other is vacant.
- (d) This space is unoccupied.
- (e) Portions of the property are subleased.

**Item 3: *Legal Proceedings***

On September 5, 2001, after our August 2000 acquisition of Herco Technology Corp. and Perception Laminates, Inc., the former owners of those companies filed a complaint against Teradyne and two of our then executive officers in the Federal District Court in San Diego, California, asserting securities fraud and breach of contract related to the acquisition. The District Court dismissed certain of the plaintiffs' claims, granted partial summary judgment against them with respect to their breach of contract claim and denied their motion for reconsideration. In July 2007, after an appeal by the plaintiffs, the U.S. Court of Appeals for the Ninth Circuit affirmed in part and reversed in part the District Court rulings. We petitioned the Ninth Circuit for rehearing of the ruling that it reversed. In October 2007, the Ninth Circuit denied our petition for rehearing. We will continue to defend the claim that was sent back to the District Court.

In 2001, we were designated as a Potentially Responsible Party ( PRP ) at a clean-up site in Los Angeles, California. This claim arose out of our acquisition of Perception Laminates in August 2000. Prior to that date, Perception Laminates had itself acquired certain assets of Alco Industries Inc. under an asset purchase agreement in 1992. Neither Teradyne nor Perception Laminates have ever conducted any operations at the Los Angeles site. We have asked the State of California to drop the PRP designation, but California has not yet agreed to do so.

We believe that we have meritorious defenses against the above unsettled claims and intend to vigorously contest them. While it is not possible to predict or determine the outcomes of the unsettled claims or to provide possible ranges of losses that may arise, we believe the potential losses associated with all of these actions will not have a material adverse effect on its consolidated financial position or liquidity, but could possibly be material to its consolidated results of operations of any one period.

In addition, we are subject to legal proceedings, claims and investigations that arise in the ordinary course of business such as, but not limited to, patent, employment, commercial and environmental matters. Although there can be no assurance, there are no such matters pending that we expect to be material with respect to its business, financial position or results of operations.

**Item 4: *Submission of Matters to a Vote of Security Holders.***

None.

## PART II

**Item 5: Market for Registrant's Common Equity, Related Shareholder Matters and Issuer Purchases of Equity Securities**

The following table shows the market range for our common stock based on reported sale prices on the New York Stock Exchange.

| Period         | High     | Low      |
|----------------|----------|----------|
| 2006           |          |          |
| First Quarter  | \$ 18.08 | \$ 14.22 |
| Second Quarter | 18.00    | 13.31    |
| Third Quarter  | 14.49    | 11.50    |
| Fourth Quarter | 15.59    | 12.95    |
| 2007           |          |          |
| First Quarter  | \$ 17.30 | \$ 14.64 |
| Second Quarter | 18.53    | 16.22    |
| Third Quarter  | 18.28    | 13.72    |
| Fourth Quarter | 14.36    | 10.02    |

The number of record holders of our common stock at February 22, 2008 was 2,695.

We have never paid cash dividends because it has been our policy to use earnings to finance expansion and growth. Payment of future cash dividends will rest within the discretion of our Board of Directors and will depend, among other things, upon our earnings, capital requirements and financial condition.

See Item 7: Management's Discussion and Analysis of Financial Condition and Results of Operations Equity Compensation Plans, for information on our equity compensation plans and our performance graph.

The following table includes information with respect to repurchases we made of our common stock during the quarter ended December 31, 2007 (in thousands except per share data):

| Period                                    | (a) Total Number of Shares (or units) Purchased | (b) Average Price Paid per Share (or Unit) | (c) Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Programs | (d) Maximum Number (or Approximate Dollar Value) of Shares (or Units) that may Yet Be Purchased Under the Plans or Programs |
|---|---|--|---|---|
| October 1, 2007 - October 28, 2007 (1)    | 2,481   | \$ 13.92                                   | 27,947  | \$ 0  |
| October 29, 2007 - November 25, 2007 (2)  | 981   | \$ 11.66                                   | 981   | \$ 388,568  |
| November 26, 2007 - December 31, 2007 (2) |   |  |   | \$ 388,568  |

- (1) In July 2006, our Board of Directors authorized a stock repurchase program. Under the program, we were allowed to spend an aggregate of \$400 million to repurchase shares of our common stock in open market repurchases, in privately negotiated transactions or through other appropriate means over the next two years. As of October 2007, we completed this repurchase program. From the inception of this program in the third quarter of 2006 to its completion, we repurchased 27,947,230 shares at an average price of \$14.31 per share.
- (2) In November 2007, our Board of Directors authorized another stock repurchase program. Under that program, we are allowed to spend an aggregate of \$400 million to repurchase shares of our common stock in open market repurchases, in privately negotiated transactions or through other appropriate means.

**Item 6: Selected Financial Data**

|   | Years Ended December 31, |              |              |              |            |
|---|--------------------------|--------------|--------------|--------------|------------|
|   | 2007                     | 2006         | 2005         | 2004         | 2003       |
| (dollars in thousands, except per share amounts)                  |                          |              |              |              |            |
| <b>Consolidated Statement of Operations Data (1):</b>             |                          |              |              |              |            |
| Net revenues  | \$ 1,102,280             | \$ 1,356,249 | \$ 1,045,104 | \$ 1,375,140 | \$ 973,005 |
| Income (loss) from continuing operations                          | 71,883                   | 208,162      | (63,656)     | 131,197      | (165,356)  |
| Net income (loss)   | 77,711                   | 198,757      | 90,648       | 165,237      | (193,993)  |
| Income (loss) from continuing operations per common share basic   | 0.39                     | 1.07         | (0.32)       | 0.68         | (0.88)     |
| Income (loss) from continuing operations per common share diluted | 0.39                     | 1.06         | (0.32)       | 0.67         | (0.88)     |
| Net income (loss) per common share basic                          | 0.42                     | 1.02         | 0.46         | 0.85         | (1.03)     |
| Net income (loss) per common share diluted                        | 0.42                     | 1.01         | 0.46         | 0.84         | (1.03)     |
| <b>Consolidated Balance Sheet Data (1):</b>                       |                          |              |              |              |            |
| Total assets  | 1,555,288                | 1,721,055    | 1,859,732    | 1,922,562    | 1,785,362  |
| Long-term debt obligations  |                          |              | 1,819        | 398,932      | 407,658    |

- (1) As a result of the divestiture of Broadband Test Division and Connection Systems, we are reporting Broadband Test Division and Connection Systems as discontinued operations for all periods presented. See Note E: Discontinued Operations in the Notes to Consolidated Financial Statements for further discussion of the divestitures.

**Item 7: Management's Discussion and Analysis of Financial Condition and Results of Operations**

The following discussion should be read in conjunction with the consolidated financial statements and notes thereto included elsewhere in this Annual Report on Form 10-K. In addition to the historical information contained in this document, the discussion in this Annual Report on Form 10-K contains forward-looking statements, made pursuant to Section 21E of the Exchange Act, that involve risks and uncertainties, such as statements of our plans, expectations and intentions. The cautionary statements made in this Annual Report on Form 10-K should be read as being applicable to all related forward-looking statements whenever they appear in this Annual Report on Form 10-K. Our actual results could differ materially from the results contemplated by these and any other forward-looking statements. Factors that could contribute to such differences include those discussed below as well as those cautionary statements and other factors set forth in Item 1A: Risk Factors and elsewhere herein.

**Critical Accounting Policies and Estimates**

We have identified the policies discussed below as critical to understanding our business and our results of operations and financial condition. The impact and any associated risks related to these policies on our business operations is discussed throughout Management's Discussion and Analysis of Financial Condition and Results of Operations where such policies affect our reported and expected financial results.

**Preparation of Financial Statements and Use of Estimates**

The preparation of consolidated financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues, and expenses and related disclosure of contingent liabilities. On an on-going basis, management evaluates its estimates, including those related to inventories, investments, goodwill, intangible and other long-lived assets, bad debts, income taxes, pensions, warranties,



contingencies, and litigation. Management bases its estimates on historical experience and on appropriate and customary assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ significantly from these estimates.

### ***Revenue Recognition***

We recognize revenue when there is persuasive evidence of an arrangement, title and risk of loss have passed, delivery has occurred or the services have been rendered, the sales price is fixed or determinable and collection of the related receivable is reasonably assured. Title and risk of loss generally pass to our customers upon shipment or at delivery destination point. In circumstances where either title or risk of loss pass upon destination, acceptance or cash payment, we defer revenue recognition until such events occur.

Our equipment includes embedded software which is considered incidental to the product. Revenue is recognized upon shipment or at delivery destination point, provided that customer acceptance criteria can be demonstrated prior to shipment. Certain contracts require us to perform tests of the product to ensure that performance meets the published product specifications or customer requested specifications, which are generally conducted prior to shipment. Where the criteria cannot be demonstrated prior to shipment, revenue is deferred until customer acceptance has been received.

For multiple element arrangements we defer the fair value of any undelivered elements of the contract. We also defer the portion of the sales price that is not due until acceptance, which represents deferred profit. For a delivered item to be considered a separate unit, the delivered item must have value to the customer on a standalone basis, there must be objective and reliable evidence of fair value of the undelivered items in the arrangement and the delivery or performance of the undelivered item must be considered probable and substantially in our control. Fair value is the price charged when the element is sold separately. Our post-shipment obligations include installation, training services, one-year standard warranties, and extended warranties. Installation does not alter the product capabilities, does not require specialized skills or tools and can be performed by the customers or other vendors. Installation is typically provided within five to fifteen days of product shipment and is completed within one to two days thereafter. Training services are optional and do not affect the customer's ability to use the product. We defer revenue for the fair value of installation and training. Extended warranties constitute warranty obligations beyond one year and we defer revenue in accordance with Financial Accounting Standards Board ( FASB ) Technical Bulletin 90-1.

Our products are generally subject to warranty and related costs of the warranty are provided for in cost of revenue when product revenue is recognized. We classify shipping and handling costs in cost of revenue. Service revenue is recognized over the contractual period or as the services are performed.

We generally do not provide our customers with contractual rights of return for any of our products.

For transactions involving the sale of software which is not incidental to the product, revenue is recognized in accordance with American Institute of Certified Public Accountants ( AICPA ) Statement of Position ( SOP ) No. 97-2, Software Revenue Recognition, as amended by SOP No. 98-9, Modification of SOP 97-2, Software Revenue Recognition, With Respect to Certain Transactions ( SOP 97-2 ). We recognize revenue when there is persuasive evidence of an arrangement, delivery has occurred, the sales price is fixed or determinable and collectibility is probable. In instances where an arrangement contains multiple elements, revenue is deferred related to the undelivered elements to the extent that vendor-specific objective evidence of fair value ( VSOE ) exists for such elements. In instances where VSOE does not exist for one or more of the undelivered elements of an arrangement, all revenue related to the arrangement is deferred until all elements have been delivered. VSOE is the price charged when the element is sold separately. Revenue for the separate elements is only recognized where the functionality of the undelivered element is not essential to the delivered element.

For certain contracts eligible for contract accounting under SOP No. 81-1, *Accounting for Performance of Construction-Type and Certain Production-Type Contracts*, revenue is recognized using the percentage-of-completion accounting method based upon the percentage of incurred costs to estimated total costs. These arrangements require significant production, modification or customization. In all cases, changes to total estimated costs and anticipated losses, if any, are recognized in the period in which they are determined. With respect to contract change orders, claims or similar items, judgment must be used in estimating related amounts and assessing the potential for realization. Such amounts are only included in the contract value when they can be reliably estimated and realization is reasonably assured, generally upon receipt of a customer approved change order.

### ***Inventories***

Inventories, which include materials, labor, and manufacturing overhead, are stated at the lower of cost (first-in, first-out basis) or net realizable value. On a quarterly basis, we use consistent methodologies to evaluate all inventory for net realizable value. We record a provision for both excess and obsolete inventory when such write-downs or write-offs are identified through the quarterly review process. The inventory valuation is based upon assumptions about future demand, product mix and possible alternative uses. Our inventory balance at December 31, 2007 was \$80.3 million, net of write-downs to net realizable value of \$105.6 million.

### ***Equity Incentive and Stock Purchase Plans***

Effective January 1, 2006, we adopted the fair value recognition provision of SFAS 123R, using the modified prospective transition method and therefore have not restated results for prior periods. Under this transition method, stock based compensation expense for the first quarter of fiscal 2006 includes compensation expense for all stock-based compensation awards granted prior to, but not yet vested as of January 1, 2006, and is calculated based on the grant date fair value estimated in accordance with the original provisions of SFAS No. 123 *Accounting for Stock Based Compensation* ( SFAS 123 ). Stock-based compensation expense for all stock-based compensation awards granted after January 1, 2006 is based on the grant-date fair value estimated in accordance with the provision of SFAS 123R. As required by SFAS 123R, we have made an estimate of expected forfeitures and are recognizing compensation costs only for those stock-based compensation awards expected to vest. The cumulative effect of the initial adoption of SFAS 123R was not material.

Prior to the adoption of SFAS 123R, we recognized stock-based compensation expense in accordance with Accounting Principles Board ( APB ) Opinion No. 25 ( APB 25 ). In March 2005, the SEC issued Staff Accounting Bulletin No. 107 ( SAB 107 ) regarding the SEC's interpretation of SFAS 123R and the valuation of share-based payments for public companies. We have applied provisions of SAB 107 in our adoption of SFAS 123R. See *Note B: Accounting Policies* and *Note O: Stock Based Compensation* in Notes to Consolidated Financial Statements for a further discussion on stock-based compensation.

On May 26, 2005, our Board of Directors approved the accelerated vesting of certain outstanding, unvested out of the money stock options awarded to employees, officers and other eligible participants under our various stock option plans in effect at that time. The stock options that were accelerated had exercise prices that were in excess of \$13.26, the closing price of our common stock on the New York Stock Exchange on May 26, 2005 and ranged in exercise price from \$13.73 to \$41.37 per share. As a result of the vesting acceleration, options to purchase approximately 7.6 million shares became exercisable immediately and we reduced the compensation expense we otherwise would have been required to record under SFAS 123R by approximately \$48.6 million in the aggregate on a pre-tax basis over fiscal years 2006, 2007 and 2008.

### ***Income Taxes***

On a quarterly basis, we evaluate the realizability of our deferred tax assets by jurisdiction and assess the need for a valuation allowance. As a result of its review undertaken at December 31, 2002, we concluded under applicable accounting criteria that it was more likely than not that our deferred tax assets would not be realized



and established a valuation allowance in several jurisdictions, most notably the United States. Due to the continued uncertainty of realization, we maintained our valuation allowance at December 31, 2007 and 2006. This valuation allowance may reverse at some time in the future if management concludes that it is more likely than not that the deferred tax assets will be realized. We continue to monitor the need for a valuation allowance on a quarterly basis. Any reversal of the valuation allowance will result in an increase in our net income, but not to the full extent of the reversal in the quarter in which reversal of the tax asset valuation allowance is made.

**Goodwill, Intangible and Long-Lived Assets**

We assess the impairment of identifiable intangibles, long-lived assets and goodwill whenever events or changes in circumstances indicate that the carrying value may not be recoverable. Factors we consider important in the determination of an impairment include significant underperformance relative to historical or projected future operating results, significant changes in the manner that we use the acquired asset and significant negative industry or economic trends. When we determine that the carrying value of intangibles and long-lived assets may not be recoverable based upon the existence of one or more of the above indicators of impairment, we measure any impairment based on a projected discounted cash flow method using a discount rate commensurate with the associated risks. We assess goodwill for impairment at least annually in the fourth quarter, on a reporting unit basis, or more frequently when events and circumstances occur indicating that the recorded goodwill may be impaired. If the book value of a reporting unit exceeds its fair value, the implied fair value of goodwill is compared with the carrying amount of goodwill. If the carrying amount of goodwill exceeds the implied fair value, an impairment loss is recorded in an amount equal to that excess.

**SELECTED RELATIONSHIPS WITHIN THE CONSOLIDATED**

**STATEMENTS OF OPERATIONS**

|  | <b>Year Ended December 31,</b> |             |             |
|--|--------------------------------|-------------|-------------|
|  | <b>2007</b>                    | <b>2006</b> | <b>2005</b> |
| Percentage of net revenue:                                   |                                |             |             |
| Net Revenue:   |                                |             |             |
| Products   | 78.2%                          | 82.5%       | 81.1%       |
| Services   | 21.8                           | 17.5        | 18.9        |
| Total net revenue  | 100.0                          | 100.0       | 100.0       |
| Cost of revenues:  |                                |             |             |
| Cost of products   | 39.0                           | 40.6        | 48.1        |
| Cost of services   | 14.4                           | 11.3        | 14.1        |
| Total cost of revenue  | 53.4                           | 51.9        | 62.2        |
| Gross profit   | 46.6                           | 48.1        | 37.8        |
| Operating Expenses:  |                                |             |             |
| Engineering and development                                  | 18.6                           | 14.9        | 20.7        |
| Selling and administrative                                   | 22.8                           | 20.9        | 23.5        |
| In-process Research and Development                          | 1.5                            |             |             |
| Restructuring and other, net                                 | (0.1)                          | (2.6)       | 1.7         |
| Total operating expenses                                     | 42.8                           | 33.2        | 45.9        |
| Net interest and other income                                | 3.4                            | 2.5         | 0.1         |
| Income (loss) from continuing operations before income taxes | 7.2                            | 17.4        | (8.0)       |
| Provision (benefit) for income taxes                         | 0.7                            | 2.1         | (1.9)       |
| Income (loss) from continuing operations                     | 6.5%                           | 15.3%       | (6.1)%      |

## Results of Operations

### Discontinued Operations

On August 1, 2007, we completed the sale of the Broadband Test Division to Tollgrade for \$11.3 million in cash. Broadband Test Division had revenues for the seven month period ended July 31, 2007 of \$11.2 million, for the year ended December 31, 2006 of \$20.6 million, and for the year ending December 31, 2005 of \$30.1 million. Loss from discontinued operations of our Broadband Test Division for the year ended December 31, 2007 was \$6.3 million, loss for the year ended December 31, 2006 was \$5.5 million, and income for the year ended December 31, 2005 was \$3.2 million. In 2007, we recorded a gain on the sale of Broadband Test Division of \$5.9 million, net of a tax provision of \$0.4 million.

On November 30, 2005, we completed the sale of our Connection Systems to Amphenol Corporation for an adjusted purchase price of \$384.7 million. Connection Systems had revenues for the eleven month period ended November 30, 2005 of \$331.0 million. Loss from discontinued operations of Connection Systems for the year ended December 31, 2006 was \$3.9 million, relating to a change in estimate to tax expenses from the sale. Under applicable accounting guidance, there is an offsetting tax benefit recorded in continuing operations for the same amount. This tax provision results from the finalization of the 2005 U.S. tax return. Income from Connection Systems through the date of sale in 2005 was \$151.1 million, including a gain on sale of Connection Systems of \$137.0 million, net of a tax provision of \$31.0 million.

In accordance with SFAS 144, we are reporting Broadband Test Division and Connection Systems as discontinued operations in the consolidated financial statements for all periods presented throughout this Annual Report on Form 10-K. Unless indicated otherwise, the discussion and amounts provided in this Results of Operations section and elsewhere in this Form 10-K relate to continuing operations only.

### Bookings

Our net orders for our two reportable segments for 2007, 2006 and 2005 are as follows:

|                    | 2007       | 2006       | 2005<br>(in millions) | 2006-2007<br>Dollar<br>Change | 2005-2006<br>Dollar<br>Change |
|--------------------|------------|------------|-----------------------|-------------------------------|-------------------------------|
| Semiconductor Test | \$ 899.7   | \$ 1,012.6 | \$ 880.4              | \$ (112.9)                    | \$ 132.2                      |
| Systems Test Group | 208.2      | 270.5      | 260.7                 | (62.3)                        | 9.8                           |
|                    | \$ 1,107.9 | \$ 1,283.1 | \$ 1,141.1            | \$ (175.2)                    | \$ 142.0                      |

The Semiconductor Test business is dependent on the current and anticipated market for test equipment, which historically has been highly cyclical. The Semiconductor Test bookings decrease of \$112.9 million or 11% from 2006 to 2007 was driven by less demand across a wide range of end markets, applications and geographies, as SOC device units grew at a lower rate in 2007 than in 2006. This decrease was lessened by our Semiconductor Test increase in SOC market share during 2007 by approximately 2 to 3 points. The increase of \$132.2 million or 15% in Semiconductor Test bookings from 2005 to 2006 was attributed to increased demand across a wide range of markets, as customers invested in SOC test equipment, principally in the first half of 2006. During 2006, the Flex family of testers moved into mainstream production and, along with the J750 platform, contributed to almost all of the growth experienced. We also saw a customer shift in orders from 2005 to 2006 with subcontractors making up a larger percentage of orders.

The Systems Test Group's decrease of \$62.3 million or 23% in orders from 2006 to 2007 was due to decreases in each business unit. Diagnostic Solutions orders are program related and have significant fluctuations. Bookings were down due to a large program rollout in 2006 for the Vehicle Measurement Module product line. Mil/Aero Test bookings are also often program related and bookings decreased in 2007 compared to 2006, as a significant military program concluded during 2007. Commercial Board Test bookings decreased in

## Edgar Filing: TERADYNE, INC - Form 10-K

2007 due to a contraction in the size of the ICT market. The Systems Test Group's increase of \$9.8 million or 4% in orders from 2005 to 2006 was primarily driven by demand in the Mil/Aero Test business due to the cyclical nature of the Mil/Aero Test program buys, offset slightly by a decrease in Diagnostic Solutions.

Our order cancellations and backlog adjustments for our two reportable segments for the last three years are as follows:

|                    | 2007          | 2006   | 2005    |
|--------------------|---------------|--------|---------|
|                    | (in millions) |        |         |
| Semiconductor Test | \$ 13.6       | \$ 3.3 | \$ 15.2 |
| Systems Test Group | 0.3           | 0.5    |         |
|                    | \$ 13.9       | \$ 3.8 | \$ 15.2 |

Customers may delay delivery of products or cancel orders suddenly and without significant notice, subject to possible cancellation penalties. In 2007 and 2006, there were no significant cancellation penalties received. Due to possible changes in delivery schedules and cancellations of orders, our backlog at any particular date is not necessarily indicative of the actual sales for any succeeding period. Delays in delivery schedules and/or cancellations of backlog during any particular period could have a material adverse effect on our business, financial condition and results of operations.

Our net bookings by region as a percentage of total net bookings are as follows:

|                   | 2007 | 2006 | 2005 |
|-------------------|------|------|------|
| United States     | 22%  | 28%  | 25%  |
| South East Asia   | 24   | 20   | 24   |
| Europe            | 12   | 14   | 16   |
| Singapore         | 14   | 12   | 13   |
| Japan             | 11   | 13   | 10   |
| Taiwan            | 16   | 12   | 10   |
| Rest of the World | 1    | 1    | 2    |
|                   | 100% | 100% | 100% |

For the past three years, our backlog of unfilled orders for our two reportable segments is as follows:

|                    | 2007          | 2006     | 2005     |
|--------------------|---------------|----------|----------|
|                    | (in millions) |          |          |
| Semiconductor Test | \$ 236.2      | \$ 212.4 | \$ 289.7 |
| Systems Test Group | 102.5         | 120.2    | 117.1    |
|                    | \$ 338.7      | \$ 332.6 | \$ 406.8 |

### **Revenue**

Our net revenue for our two reportable segments for 2007, 2006 and 2005 is as follows:

|                    | 2007          | 2006       | 2005     | 2006-2007<br>Dollar<br>Change | 2005-2006<br>Dollar<br>Change |
|--------------------|---------------|------------|----------|-------------------------------|-------------------------------|
|                    | (in millions) |            |          |                               |                               |
| Semiconductor Test | \$ 876.5      | \$ 1,088.9 | \$ 814.2 | \$ (212.4)                    | \$ 274.7                      |
| Systems Test Group | 225.8         | 267.3      | 230.9    | (41.5)                        | 36.4                          |

|            |            |            |            |          |
|------------|------------|------------|------------|----------|
| \$ 1,102.3 | \$ 1,356.2 | \$ 1,045.1 | \$ (253.9) | \$ 311.1 |
|------------|------------|------------|------------|----------|

## Edgar Filing: TERADYNE, INC - Form 10-K

Semiconductor Test decrease in revenue of \$212.4 million or 20% from 2006 to 2007 is due to SOC device units growing at a lower rate in 2007 compared to 2006. This decrease was lessened by our Semiconductor Test increase in SOC market share during 2007 by approximately 2 to 3 points. This resulted in decreased demand across a wide range of end markets, applications and geographies. Semiconductor Test revenue increase of \$274.7 million or 34% from 2005 to 2006 can be attributed to increased demand across a wide range of markets, as customers invested in SOC test equipment. Almost the entire increase in 2006 is related to our FLEX family and J750 products and is distributed across all regions. The increase is partially offset by a decrease of certain non-FLEX test systems.

Systems Test Group revenue decrease of \$41.5 million or 16% from 2006 to 2007 can be attributed to a decrease in Diagnostic Solutions sales, due to a large program rollout in 2006 for the Vehicle Measurement Module product line. The Systems Test Group increase of \$36.4 million or 16% in revenue from 2005 to 2006 was driven by a strong increase in Diagnostic Solutions sales due primarily to the Vehicle Measurement Module product line.

Our two reportable segments accounted for the following percentages of consolidated net revenue for each of the last three years:

|                    | 2007 | 2006 | 2005 |
|--------------------|------|------|------|
| Semiconductor Test | 80%  | 80%  | 78%  |
| Systems Test Group | 20   | 20   | 22   |
|                    | 100% | 100% | 100% |

Our net revenue by region as a percentage of total revenue is as follows:

|                   | 2007 | 2006 | 2005 |
|-------------------|------|------|------|
| United States     | 23%  | 23%  | 22%  |
| South East Asia   | 22   | 24   | 24   |
| Europe            | 12   | 14   | 15   |
| Taiwan            | 13   | 14   | 13   |
| Japan             | 12   | 12   | 9    |
| Singapore         | 15   | 11   | 14   |
| Rest of the World | 3    | 2    | 3    |
|                   | 100% | 100% | 100% |

Our product and service revenue breakout for the past three years is as follows:

|                 | 2007       | 2006       | 2005          | 2006-2007<br>Dollar<br>Change | 2005-2006<br>Dollar<br>Change |
|-----------------|------------|------------|---------------|-------------------------------|-------------------------------|
|                 |            |            | (in millions) |                               |                               |
| Product Revenue | \$ 861.6   | \$ 1,118.8 | \$ 847.2      | \$ (257.2)                    | \$ 271.6                      |
| Service Revenue | 240.7      | 237.4      | 197.9         | 3.3                           | 39.5                          |
|                 | \$ 1,102.3 | \$ 1,356.2 | \$ 1,045.1    | \$ (253.9)                    | \$ 311.1                      |

Although product revenue decreased \$257.2 million or 23% in 2007 from 2006 due to SOC device units growing at a lower rate in 2007 compared to 2006, service revenue, which is derived from the servicing of our installed base of products, remained relatively flat from 2006. Service revenue includes maintenance contracts, repairs, extended warranties, parts sales and applications support.

In the past three years, no single customer accounted for more than 10% of consolidated net revenue. In 2007, 2006, and 2005, our three largest customers in the aggregate accounted for 16%, 18% and 18% of consolidated net revenue, respectively.

**Gross Margin**

|                          | 2007     | 2006     | 2005<br>(dollars in millions) | 2006-2007<br>Dollar /<br>Point<br>Change | 2005-2006<br>Dollar /<br>Point<br>Change |
|--------------------------|----------|----------|-------------------------------|--|--|
| Gross Margin             | \$ 513.4 | \$ 651.9 | \$ 395.1                      | \$ (138.5)                               | \$ 256.8                                 |
| Percent of Total Revenue | 46.6%    | 48.1%    | 37.8%                         | (1.5)                                    | 10.3                                     |

The decrease in gross margin of 1.5 points from 2006 to 2007 was the result of several factors. A reduction in Semiconductor Test sales volume contributed to a decrease of 1.5 points. A shift in product mix, primarily related to higher service revenue as a percentage of total revenue, contributed to a decrease of 2 points. These decreases were offset by an increase of 1 point due to lower Semiconductor Test inventory provisions in 2007, and an increase of 1 point resulting from lower fixed costs and employee compensation across both segments.

The increase in gross margin of approximately 10 points from 2005 to 2006 was the result of several factors. An increase in Semiconductor Test sales volume contributed 4 points; a shift in product mix within Semiconductor Test contributed 2 points; an improvement in service margins, primarily within Semiconductor Test, contributed 2 points; the remaining 2 point increase was due to lower inventory provisions in 2006, as we recorded a \$38.5 million charge for non-FLEX products in the Semiconductor Test segment in 2005, compared to an \$8.0 million charge for non-FLEX products in 2006.

The breakout of product and service gross margin is as follows:

|                            | 2007     | 2006     | 2005<br>(dollars in millions) | 2006-2007<br>Dollar /<br>Point<br>Change | 2005-2006<br>Dollar /<br>Point<br>Change |
|----------------------------|----------|----------|-------------------------------|--|--|
| Product Gross Margin       | \$ 431.1 | \$ 568.5 | \$ 345.0                      | \$ (137.4)                               | \$ 223.5                                 |
| Percent of Product Revenue | 50.0%    | 50.8%    | 40.7%                         | (0.8)                                    | 10.1                                     |

|                            | 2007    | 2006    | 2005<br>(dollars in millions) | 2006-2007<br>Dollar / Point<br>Change | 2005-2006<br>Dollar /<br>Point<br>Change |
|----------------------------|---------|---------|-------------------------------|---------------------------------------|--|
| Service Gross Margin       | \$ 82.3 | \$ 83.4 | \$ 50.0                       | \$ (1.1)                              | \$ 33.4                                  |
| Percent of Service Revenue | 34.2%   | 35.1%   | 25.3%                         | (0.9)                                 | 9.8                                      |

We assess the carrying value of our inventory on a quarterly basis by estimating future demand and comparing that demand against on-hand and on-order inventory positions. Forecasted revenue information is obtained from the sales and marketing groups and incorporates factors such as backlog and future revenue demand. This quarterly process identifies obsolete and excess inventory. Obsolete inventory, which represents items for which there is no demand, is fully reserved. Excess inventory, which represents inventory items that are not expected to be consumed during the next four quarters, is written-down to estimated net realizable value. These write-offs and write-downs consist of raw materials and components. Sales of previously reserved inventory items result in recovery of the related inventory provision, which is recorded in cost of revenues. During the years ended December 31, 2007, 2006 and 2005, we sold inventory previously reserved of \$1.2 million, \$2.8 million and \$1.5 million, respectively.

During the year ended December 31, 2007, we recorded inventory provisions of \$1.8 million in cost of revenues of which \$0.3 million was for excess inventory and \$1.5 million was for obsolete inventory. Of the \$1.8 million of total excess and obsolete provisions recorded, \$0.5 million related to Semiconductor Test and \$1.3 million related to Systems Test Group.

During the year ended December 31, 2006, we recorded inventory provisions of \$12.8 million in cost of revenues of which \$11.7 million was for excess inventory and \$1.1 million was for obsolete inventory. Of the \$12.8 million of total excess and obsolete provisions recorded, \$11.5 million related to Semiconductor Test (including an \$8.0 million provision for the write-down of excess non-FLEX inventory) and \$1.3 million related to Systems Test Group.

During the year ended December 31, 2005, we recorded inventory provisions of \$49.0 million in cost of revenues of which \$36.9 million was for excess inventory and \$12.1 million was for obsolete inventory. Of the \$49.0 million of total excess and obsolete provisions recorded, \$45.5 million related to Semiconductor Test (including a \$38.5 million provision for the write-down of excess non-FLEX inventory) and \$3.5 million related to Systems Test Group.

We scrapped \$33.5 million, \$29.5 million, and \$34.1 million of inventory, which had been previously written-down or written-off, during the years ended December 31, 2007, 2006 and 2005, respectively. We have no set timeline for scrapping the remaining inventory that has been previously written-down to net realizable value. As of December 31, 2007 and 2006, we had inventory reserves for amounts which have been written-down to net realizable value of \$105.6 million and \$138.4 million, respectively. Of the reserves at December 31, 2007, \$1.8 million, \$11.3 million, \$46.9 million, and \$45.6 million relate to inventory provisions recorded in 2007, 2006, 2005, and prior to 2005, respectively.

### Engineering and Development

|                             | 2007     | 2006     | 2005                  | 2006-2007<br>Change | 2005-2006<br>Change |
|-----------------------------|----------|----------|-----------------------|---------------------|---------------------|
|                             |          |          | (dollars in millions) |                     |                     |
| Engineering and Development | \$ 204.3 | \$ 202.4 | \$ 216.4              | \$ 1.9              | \$ (14.0)           |
| Percent of Total Revenue    | 18.6%    | 14.9%    | 20.7%                 |                     |                     |

The increase of \$1.9 million in engineering and development expenses from 2006 to 2007 was due in part to a \$10.3 million increase in spending related to new products and entry into adjacent markets, primarily in the Semiconductor Test segment. This was partially offset by lower variable employee compensation of \$8.4 million.

During 2006 and 2005, we reduced our levels of investment in engineering and development spending. More than 80% of our total engineering and development expenses are incurred by the Semiconductor Test segment, where a new test platform requires up to three years for development and costs between \$150 and \$250 million. During 2005, Semiconductor Test completed its UltraFLEX platform development and shifted its focus to increasing the instrumentation set on its FLEX Test Platform (UltraFLEX and FLEX) which requires lower levels of engineering and development expenditures.

The decrease of \$14.0 million in engineering and development spending from 2005 to 2006 consists of the following amounts:

\$25.4 million decrease due to a reduction in headcount primarily in the U.S., offset partially by an increase in engineering and development activities in low cost regions; and

\$6.5 million decrease due to the completion of certain portions of the FLEX Test Platform engineering work.

These decreases were partially offset by the following:

\$10.9 million increase due to higher variable employee compensation; and

\$7.0 million increase due to stock based compensation.

**Selling and Administrative**

|                            | 2007                  | 2006     | 2005     | 2006-2007<br>Change | 2005-2006<br>Change |
|----------------------------|-----------------------|----------|----------|---------------------|---------------------|
|                            | (dollars in millions) |          |          |                     |                     |
| Selling and Administrative | \$ 250.8              | \$ 283.0 | \$ 246.0 | \$ (32.2)           | \$ 37.0             |
| Percent of Total Revenue   | 22.8%                 | 20.9%    | 23.5%    |                     |                     |

The decrease in selling and administrative spending of \$32.2 million from 2006 to 2007 consists of the following:

\$13.5 million decrease due to lower variable employee compensation; and

\$18.7 million in lower transition expenses, including the consolidation of facilities in Massachusetts and costs associated with the outsourcing of certain information technology functions, both of which occurred in 2006.

The increase in selling and administrative spending of \$37.0 million from 2005 to 2006 consists of the following:

\$19.5 million increase due to higher variable employee compensation;

\$14.1 million increase due to transition expenses, including the consolidation of facilities in Massachusetts and costs associated with the outsourcing of certain information technology functions; and

\$11.4 million increase due to stock based compensation.

These increases from 2005 to 2006 were partially offset by the following:

\$6.7 million decrease due to a reduction in headcount; and

\$1.3 million decrease in foreign exchange expense.

**In-process Research and Development**

On March 7, 2007, we purchased in-process enabling test technology and hired certain engineers from MOSAID Technologies Inc. for \$17.6 million, which includes \$0.6 million in fees directly related to the acquisition. Of the purchase price, \$16.7 million has been allocated to in-process research and development and therefore has been immediately charged to the statement of operations. The balance of the purchase price has been allocated to acquired workforce and fixed assets.

This technology was purchased to be used in the development of a new semiconductor test product. As of the acquisition date, the technology had not reached technical feasibility, had no alternative future use and its fair value was estimable with reasonable reliability, and therefore has been classified as in-process research and development. The technology is unique to the semiconductor test market and requires significant development. The estimated fair value of the in-process technology was determined based on the use of a discounted cash flow model using an income approach. Estimated cash flows were probability adjusted to take into account the stage of completion and the risks surrounding successful development and commercialization of the in-process technology. Such a valuation requires significant estimates and assumptions including but not limited to determining the timing and estimated costs to complete the in-process project as well as the estimated cash flows to be generated as a result of completing the project development.

**Restructuring and Other, Net**



## Edgar Filing: TERADYNE, INC - Form 10-K

In response to a downturn in the industry, we initiated restructuring activities in 2002 across all segments to reduce costs and redundancies, principally through headcount reductions and facility consolidations. Further

actions were initiated in 2003, to a lesser extent in 2004, 2005, 2006 and 2007. Additionally, in 2005, 2006 and 2007 as part of our facility consolidation, we sold certain real estate. The tables below represent activity related to these actions. The remaining accrual for severance and benefits is reflected in the accrued employees' compensation and withholdings account on the balance sheet. The remaining accrual for lease payments on vacated facilities is reflected in the other accrued liabilities account and the long-term other accrued liabilities account and is expected to be paid out over the lease terms, the latest of which expires in 2012. We expect to pay out approximately \$2.2 million against the lease accruals over the next twelve months. Our future lease commitments are net of expected sublease income of \$7.8 million as of December 31, 2007. We have subleased approximately 55% of our unoccupied space as of December 31, 2007 and are actively attempting to sublease the remaining space.

**2007 Activities**

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits<br>(in thousands) | Insurance<br>Recovery | Total    |
|------------------------------|--|--|-----------------------|----------|
| 2007 (credit) provision      | \$ (3,597)                               | \$ 6,963                                       | \$ (4,326)            | \$ (960) |
| Cash receipts (payments)     | 3,597                                    | (5,855)  | 4,326                 | 2,068    |
| Balance at December 31, 2007 | \$                                       | \$ 1,108                                       | \$                    | \$ 1,108 |

We recorded the following activity related to the 2007 restructuring activities:

\$3.6 million gain on the sale of land and building in Deerfield, Illinois;

\$7.0 million of severance charges related to headcount of 202 people across all functions and segments; and

\$4.3 million of cash proceeds recovered from insurance related to a facility fire in Taiwan.

The restructuring actions taken during the year ended December 31, 2007 are expected to generate quarterly cost savings of approximately \$3.5 million across all segments.

**2006 Activities**

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits | Facility<br>Related<br>(in thousands) | Long-Lived<br>Asset<br>Impairment | Total       |
|------------------------------|--|------------------------------|---------------------------------------|-----------------------------------|-------------|
| 2006 (credit) provision      | \$ (39,098)                              | \$ 4,292                     | \$ 1,153                              | \$ 50                             | \$ (33,603) |
| Cash receipts (payments)     | 39,098                                   | (2,659)                      | (528)                                 |                                   | 35,911      |
| Asset write-downs            |  |                              |                                       | (50)                              | (50)        |
| Balance at December 31, 2006 |  | 1,633                        | 625                                   |                                   | 2,258       |
| 2007 credit                  |  | (152)                        |                                       |                                   | (152)       |
| Cash payments                |  | (1,473)                      | (590)                                 |                                   | (2,063)     |
| Balance at December 31, 2007 | \$                                       | \$ 8                         | \$ 35                                 | \$                                | \$ 43       |

We recorded the following activity related to the 2006 restructuring activities:

Edgar Filing: TERADYNE, INC - Form 10-K

\$39.1 million gain on the sale of real estate, including \$35.8 million for two Semiconductor Test facilities in Boston, MA, \$1.5 million for a Semiconductor Test parking facility in Boston, MA, \$1.3 million for a Semiconductor Test facility in San Jose, CA and \$0.5 million for buildings in Nashua, NH;

\$4.3 million of severance charges related to 179 people across all segments; and

Edgar Filing: TERADYNE, INC - Form 10-K

\$1.2 million of facility related charges for the exit of Semiconductor Test facilities in Newbury Park, CA and Waltham, MA.

**2005 Activities**

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits | Long-Lived<br>Asset<br>Impairment | Facility<br>Related | Other<br>Charges | Total     |
|------------------------------|--|------------------------------|-----------------------------------|---------------------|------------------|-----------|
| 2005 provision (credit)      | \$ (15,329)                              | \$ 21,254                    | \$ 8,331                          | \$ 2,276            | \$ 4,247         | \$ 20,779 |
| Cash (payments) receipts     | 15,329                                   | (11,439)                     |                                   | (546)               | (3,718)          | (374)     |
| Asset write-downs            |  |                              | (8,331)                           |                     |                  | (8,331)   |
| Balance at December 31, 2005 |  | 9,815                        |                                   | 1,730               | 529              | 12,074    |
| 2006 (credit) provision      |  | (50)                         |                                   | 555                 |                  | 505       |
| Cash payments                |  | (8,766)                      |                                   | (406)               | (529)            | (9,701)   |
| Balance at December 31, 2006 |  | 999                          |                                   | 1,879               |                  | 2,878     |
| 2007 (credit) provision      |  | (108)                        |                                   | 53                  |                  | (55)      |
| Cash payments                |  | (649)                        |                                   | (443)               |                  | (1,092)   |
| Balance at December 31, 2007 | \$                                       | \$ 242                       | \$                                | \$ 1,489            | \$               | \$ 1,731  |

We recorded the following activity related to the 2005 restructuring activities:

\$15.3 million in gains, including \$13.2 million in Semiconductor Test for the sale of land in Japan and a building in Agoura Hills, CA, and \$2.1 million at Corporate for the sale of a building in North Reading, MA;

\$21.3 million for severance and related benefits for 526 people terminated across all segments;

\$8.3 million charge, for certain long-lived assets held for sale, as the estimated fair value was less than the carrying value of the assets primarily related to a building held for sale in North Reading, MA, at Corporate which was subsequently sold;

\$2.3 million charge in 2005 and an additional \$0.6 million in 2006 related to the exit of a Systems Test Group facility in Poway, CA; and

\$4.2 million charge consisting of \$3.1 million of divestiture-related fees at Corporate and \$1.1 million for a lease obligation for unused software licenses in Semiconductor Test.

**Pre-2005 Activities**

|                              | Severance<br>and<br>Benefits | Loss on Sale<br>of Product<br>Lines<br>(in thousands) | Facility<br>Related | Total     |
|------------------------------|------------------------------|---|---------------------|-----------|
| Balance at December 31, 2004 | \$ 2,079                     | \$  | \$ 20,651           | \$ 22,730 |
| 2005 (credit) provision      |                              | (4,068)   | 933                 | (3,135)   |
| Cash (payments) receipts     | (1,778)                      | 4,068   | (6,253)             | (3,963)   |

Edgar Filing: TERADYNE, INC - Form 10-K

|                              |       |       |          |          |
|------------------------------|-------|-------|----------|----------|
| Balance at December 31, 2005 | 301   |       | 15,331   | 15,632   |
| 2006 credit                  |       | (406) | (2,529)  | (2,935)  |
| Cash (payments) receipts     | (117) | 406   | (5,077)  | (4,788)  |
| Balance at December 31, 2006 | 184   |       | 7,725    | 7,909    |
| 2007 (credit) provision      | (184) | (906) | 1,598    | 508      |
| Cash (payments) receipts     |       | 906   | (3,045)  | (2,139)  |
| Balance at December 31, 2007 | \$    | \$    | \$ 6,278 | \$ 6,278 |

For Pre-2005 restructuring activities, we recorded the following activity in 2007:

\$0.9 million from earn-out payments received from the product line divestitures in the Systems Test Group.

\$1.6 million related to changes in estimated sublease income and related facility costs from facilities previously exited by the Systems Test Group.

During February 2008, we implemented reduction-in-force activities across all reportable segments, functions and geographies. This will include a reduction of approximately 175 employees and a severance charge during the first quarter of 2008 of approximately \$9.5 million. These actions are expected to result in annual savings of approximately \$25 million.

### Interest Income and Expense

|                  | 2007          | 2006      | 2005      | 2006-2007<br>Change | 2005-2006<br>Change |
|------------------|---------------|-----------|-----------|---------------------|---------------------|
|                  | (in millions) |           |           |                     |                     |
| Interest income  | \$ 35.9       | \$ 44.6   | \$ 17.8   | \$ (8.7)            | \$ 26.8             |
| Interest expense | \$ (0.7)      | \$ (11.1) | \$ (16.2) | \$ 10.4             | \$ 5.1              |

The decrease in interest income from 2006 to 2007 was primarily attributable to lower cash balances due to the stock repurchase activity in 2007. The increase in interest income from 2005 to 2006 was primarily attributable to higher cash balances primarily from the proceeds received from the divestiture of Connection Systems.

The decrease in interest expense from 2006 to 2007 was due primarily to the repayment of our 3.75% Senior Convertible Notes (the Notes) in 2006. The decrease in interest expense from 2005 to 2006 was due primarily to the repayment of Notes in the fourth quarter of 2006 and repurchases made earlier in the year.

### Income (Loss) from Continuing Operations before Income Taxes

|                    | 2007          | 2006     | 2005      | 2006-2007<br>Change | 2005-2006<br>Change |
|--------------------|---------------|----------|-----------|---------------------|---------------------|
|                    | (in millions) |          |           |                     |                     |
| Semiconductor Test | \$ 25.1       | \$ 183.1 | \$ (88.6) | \$ (158.0)          | \$ 271.7            |
| Systems Test Group | 12.0          | 24.2     | 19.6      | (12.2)              | 4.6                 |
| Corporate          | 42.1          | 28.7     | (14.4)    | 13.4                | 43.1                |
| Total              | \$ 79.2       | \$ 236.0 | \$ (83.4) | \$ (156.8)          | \$ 319.4            |

The decrease in income from continuing operations before income taxes from 2006 to 2007 was mainly due to the 20% reduction in revenue in the Semiconductor Test segment, which was a result of SOC device units growing at a lower rate in 2007 compared to 2006. The increase in Corporate from 2006 to 2007 is primarily related to the elimination of our interest expense due to the repayment of our Notes in 2006 and gains from sales of real estate which totaled \$3.6 million. The change to an income position from 2005 to 2006 was mainly attributable to increased sales in Semiconductor Test and to a lesser extent gains on the sale of real estate, primarily in Semiconductor Test, and additional interest income, net included in Corporate of \$32.0 million.

### Income Taxes

During 2007, the income tax expense from continuing operations totaled \$7.4 million. The expense relates primarily to tax provisions for foreign taxes offset by benefits related to the utilization of foreign tax credits in the U.S. During 2006, the income tax expense from continuing operations totaled \$27.9 million. The expense relates primarily to a tax provision for foreign taxes offset by benefits from a \$6.0 million credit related to U.S. pension funding and the settlement of a California income tax audit for 1998 through 2000. For the year ended December 31, 2005, there was a tax benefit from continuing operations that totaled \$19.7 million. Under generally accepted accounting principles (GAAP), a

benefit for \$29.2 million was recognized for losses

relating to 2005 continuing operations, as a result of the sale of Connection Systems. There was an equal and offsetting tax provision in the gain on sale of Connection System in discontinued operations. The remaining portion of the net tax benefit includes a tax provision that related primarily to foreign taxes.

### Contractual Obligations

The following table reflects our contractual obligations as of December 31, 2007:

| Payments Due by Period | Purchase Obligations | Non-cancelable                          | Pension Funding  | Total             |
|------------------------|----------------------|---|------------------|-------------------|
|                        |                      | Lease Commitments (1)<br>(in thousands) |                  |                   |
| 2008                   | \$ 131,374           | \$ 13,972                               | \$ 2,400         | \$ 147,746        |
| 2009                   |                      | 12,556                                  | 1,800            | 14,356            |
| 2010                   |                      | 11,327                                  | 1,800            | 13,127            |
| 2011                   |                      | 9,396                                   | 1,800            | 11,196            |
| 2012                   |                      | 5,089                                   | 1,400            | 6,489             |
| Beyond 2012            |                      | 618                                     | 1,400            | 2,018             |
| <b>Total</b>           | <b>\$ 131,374</b>    | <b>\$ 52,958</b>                        | <b>\$ 10,600</b> | <b>\$ 194,932</b> |

(1) Minimum payments have not been reduced by minimum sublease income of \$10.5 million due in the future under non-cancelable subleases.

### Liquidity and Capital Resources

Our cash, cash equivalents and marketable securities balance decreased \$201.7 million in 2007 from 2006, to \$742.9 million. Cash activity for 2007, 2006 and 2005 was as follows (in millions):

|   | 2007              | 2006              | 2005             | 2006-2007<br>Change | 2005-2006<br>Change |
|---|-------------------|-------------------|------------------|---------------------|---------------------|
| <b>Cash provided by operating activities:</b>   |                   |                   |                  |                     |                     |
| Income (loss) from continuing operations, adjusted for non cash items                             | \$ 176.0          | \$ 283.8          | \$ 32.6          | \$ (107.8)          | \$ 251.2            |
| Change in operating assets and liabilities, net of product lines and businesses sold and acquired | (44.2)            | 169.1             | (49.2)           | (213.3)             | 218.3               |
| Cash (used for) provided by discontinued operations   | (3.6)             | (2.8)             | 30.1             | (0.8)               | (32.9)              |
| <b>Total cash provided by operating activities</b>  | <b>\$ 128.2</b>   | <b>\$ 450.1</b>   | <b>\$ 13.5</b>   | <b>\$ (321.9)</b>   | <b>\$ 436.6</b>     |
| Cash provided by (used for) investing activities for continuing operations                        | 105.8             | 196.6             | (184.4)          | (90.8)              | 381.0               |
| Cash provided by (used for) investing activities of discontinued operations                       | 10.8              | (0.4)             | 366.4            | 11.2                | (366.8)             |
| <b>Total cash provided by investing activities</b>  | <b>\$ 116.6</b>   | <b>\$ 196.2</b>   | <b>\$ 182.0</b>  | <b>\$ (79.6)</b>    | <b>\$ 14.2</b>      |
| <b>Total cash used for financing activities</b>   | <b>\$ (250.5)</b> | <b>\$ (419.0)</b> | <b>\$ (63.9)</b> | <b>\$ 168.5</b>     | <b>\$ (355.1)</b>   |
| <b>Total</b>  | <b>\$ (5.7)</b>   | <b>\$ 227.3</b>   | <b>\$ 131.6</b>  | <b>\$ (233.0)</b>   | <b>\$ 95.7</b>      |

Changes in operating assets and liabilities, net of product lines and businesses sold and acquired, used cash of \$44.2 million in 2007. This was due to a number of factors including, an increase in accounts receivable of \$33.7 million due to an increase in days sales outstanding from 55 days in 2006 to 66 days in 2007, a reduction of accrued income taxes of \$30.9 million due to the payments of 2006 foreign income taxes around the world, and an increase in other assets of \$25.0 million primarily related to balances due for inventory provided to our outsourced subcontract



## Edgar Filing: TERADYNE, INC - Form 10-K

manufacturer of \$15.7 million. These uses of cash were offset by a decrease in our inventory balances due to shorter cycle times with our FLEX products. Changes in operating assets and liabilities, net of product lines and businesses sold and acquired, provided cash of \$169.1 million in 2006

primarily due to a decrease of accounts receivable balances of \$67.9 million resulting mostly from the decrease in sales volume in the fourth quarter of 2006 compared to the fourth quarter of 2005. Additionally, there was a decrease in inventory of \$79.3 million due to shorter cycle times with our FLEX products, and an increase of \$32.8 million in accrued income taxes due to higher foreign income taxes in 2006 compared to 2005. These providers of cash were partially offset by retirement plan contributions of \$30.2 million of which \$20.0 million was a contribution to our U.S. Qualified Pension Plan. Changes in operating assets and liabilities, net of product lines and businesses sold and acquired, used cash of \$49.2 million in 2005 primarily due to an increase in accounts receivable of \$58.7 million and retirement plan contributions of \$40.1 million, partially offset by a \$69.9 million decrease in inventory.

Investing activities consist of purchases, sales and maturities of marketable securities, proceeds from the sale of businesses, proceeds from asset disposals, proceeds from the sale of product lines, cash paid for assets and purchases of capital assets. Capital expenditures were \$86.1 million in 2007, \$110.0 million in 2006, and \$112.7 million in 2005. Capital expenditures decreased by \$23.9 million in 2007 compared to 2006, primarily due to a decrease of internally manufactured systems for use in marketing and engineering activities in Semiconductor Test of approximately \$18.1 million. The remainder of the decrease was attributable to lower purchases of manufacturing and engineering equipment across Teradyne. Proceeds from asset disposals were \$8.8 million and \$85.0 million in 2007 and 2006, respectively and primarily consist of sales of real estate. In March 2007, we bought an enabling technology from MOSAID Technologies Inc. for a purchase price and related costs totaling \$17.6 million. Investing activities of discontinued operations provided \$10.8 million of cash in 2007. Included in this balance is the net proceeds we received related to the sale of our Broadband Test Division to Tollgrade in August 2007. Investing activities of discontinued operations provided \$366.4 million of cash in 2005 and includes the net proceeds related to our sale of Connection Systems to Amphenol Corporation in November 2005.

Financing activities include issuance of our common stock, repurchases of Teradyne's common stock as well as repayments of debt. During 2006 and 2005, repayments of long-term debt used cash of \$304.6 million and \$98.7 million, respectively. Upon maturity in the fourth quarter of 2006, we paid off the outstanding balance of our outstanding Notes, which approximated \$261 million aggregate principal. We also repurchased portions of our outstanding Notes in the first and third quarters of 2006, in the first and fourth quarters of 2005 and the third quarter of 2004. During 2007, 2006 and 2005, issuances of common stock under stock option and stock purchase plans generated \$23.2 million, \$23.3 million, and \$34.7 million, respectively. In July 2006, our Board of Directors authorized a stock repurchase program which was completed in October 2007. In total, \$400 million of common stock was repurchased in the open market or in privately negotiated transactions. During 2006, we repurchased 10.6 million shares of common stock for \$137.8 million for an average price per share of \$12.98. During 2007, we repurchased 17.3 million shares of common stock for \$262.2 million for an average price per share of \$15.13. In November 2007, our Board of Directors authorized another stock repurchase program, allowing us to spend an aggregate of \$400 million to repurchase shares of our common stock. As of December 31, 2007, we repurchased 1.0 million shares of our common stock under this program for an average price per share of \$11.66.

In October 2001, we issued \$400 million principal amount of the Notes in a private placement and received net proceeds of \$389 million. The Notes were convertible at the option of the holders at a rate which was equivalent to a conversion price of approximately \$26.00 per share, which was equal to a conversion rate of approximately 38.4615 shares of common stock per \$1,000 principal amount of Notes. We made annual interest payments of \$15 million, paid semi-annually, on the Notes commencing on April 15, 2002. In August 2004, our Board of Directors authorized us to repurchase up to \$100 million of the outstanding Notes in open market purchases at negotiated prices below 101.50% of the principal amount. The Board subsequently amended its authorization on October 21, 2005 to authorize repurchases through open market purchases, privately negotiated transaction, auctions, by redemption pursuant to the terms of the governing indenture or other means as determined by our CEO or CFO, at prices below 100.75% of the principal amount. The \$100 million authorization for repurchase was fully utilized by management during the third quarter of 2004 and the first and fourth quarters of 2005 to repurchase \$8.5 million, \$20.0 million and \$71.5 million of the Notes, respectively. The decision to repurchase a portion of the Notes was based on the fair market value of the Notes being below

the return we would earn on high grade investment securities. On January 26, 2006, management was given further authorization by our Board to repurchase up to the full \$300 million of the principal amount that remained outstanding under the Notes through open market purchases, privately negotiated transactions and auctions for a price not to exceed 100% of the principal amount plus any accrued but unpaid interest thereon. During 2006, we repurchased Notes of \$15.0 million in the first quarter, \$24.0 million in the third quarter, and we repaid the remaining \$261 million in the fourth quarter of 2006.

Unrealized losses related to our marketable securities totaled \$1.2 million at December 31, 2007. Approximately \$33.7 million of our total investment portfolio of marketable securities were invested in debt securities that have an unrealized loss that has existed for greater than one year as of December 31, 2007. Of the securities, \$15 million mature within the first quarter of 2008. We review our investments to identify and evaluate investments that have an indication of possible impairment. Factors considered in determining whether a loss is temporary include the length of time and extent to which fair value has been less than the cost basis, the financial condition and near term prospects of the investee, and our intent and ability to hold the investment for a period of time to allow for anticipated recovery in market value. Based on our review, we have determined that the unrealized losses are temporary.

On January 24, 2008, we completed the acquisition of Nextest for an estimated purchase price of \$325 million. This estimated purchase price is net of the cash acquired and includes the fair value of fully vested employee equity instruments and transaction costs.

We believe our cash, cash equivalents and marketable securities balance at December 31, 2007 of \$742.9 million will be sufficient to fund the acquisition of Nextest as well as meet the working capital and expenditure needs for at least the foreseeable future. Inflation has not had a significant long-term impact on earnings.

#### **Retirement Plans**

We adopted the funded status recognition provision of SFAS 158 effective December 31, 2006. This standard amends SFAS 87, 88, 106, and 132(R). SFAS 158 requires an employer with defined benefit plans or other postretirement benefit plans to recognize an asset or a liability on its balance sheet for the overfunded or underfunded status of the plans as defined by SFAS 158. The pension asset or liability represents the difference between the fair value of the pension plan's assets and the projected benefit obligation as of December 31. For other postretirement benefit plans, the liability is the difference between the fair value of the plan's assets and the accumulated postretirement benefit obligation as of December 31.

Our pension expense, which includes the U.S. Qualified Pension Plan, certain Qualified Plans for non-U.S. subsidiaries and a Supplemental Executive Defined Benefit Plan, was approximately \$7.2 million for the year ended December 31, 2007. The largest portion of our 2007 pension expense was \$3.1 million for our Supplemental Executive Defined Benefit Plan. Pension expense is calculated based upon a number of actuarial assumptions, a significant input to the actuarial models that measure pension benefit obligations. Two assumptions: discount rate and expected return on assets are important elements of pension plan expense and asset/liability measurement. We evaluate these critical assumptions at least annually on a plan and country specific basis. We evaluate other assumptions involving demographic factors, such as retirement age, mortality and turnover periodically, and update them to reflect our experience and expectations for the future.

In developing the expected return on plan assets assumption, we evaluated input from our investment manager and pension consultants, including their review of asset class return expectations. Based on this review, we believe that 7.75% was an appropriate rate to use for fiscal 2007. We will continue to evaluate the expected return on plan assets at least annually, and will adjust the rate as necessary. The current asset allocation for our U.S. Qualified Pension Plan is 46.3% invested in equity securities and 53.7% invested in fixed income securities, which is in accordance with the plan's asset allocation requirements. Our actual asset allocation as of December 31, 2007 was virtually identical to the plan's asset allocation model. Our investment manager regularly reviews the actual asset allocation and periodically rebalances the portfolio to ensure alignment with our targeted allocations.

We base our determination of pension expense or benefit on a market-related valuation of assets, which reduces year-to-year volatility. This market-related valuation recognizes investment gains or losses over a five-year period from the year in which they occur. Investment gains or losses for this purpose are the difference between the expected return calculated using the market-related value of assets and the actual return on assets. Since the market-related value of assets recognizes gains or losses over a five-year period, the future value of assets will be impacted as previously deferred gains or losses are recognized. As of December 31, 2007, under the U.S. Qualified Pension Plan, we had cumulative gains of approximately \$3.2 million, which remain to be recognized in the calculation of the market-related value of assets. The discount rate that we utilized for determining future pension obligations for the U.S. Qualified Pension Plan is based on the Citigroup Pension Liability Index, which was 6.5% at December 31, 2007, up from 5.9% at December 31, 2006. As a result, we selected 6.5% for our December 31, 2007 discount rate, up from 6.0% as of December 31, 2006. The duration of the Citigroup Pension Liability Index at December 31, 2007 was 15.1 years, which approximates the duration of the portfolio of pension liabilities. We estimate that in 2008 we will recognize approximately \$2.2 million of pension benefit for the U.S. Qualified Pension Plan. The pension benefit estimate for 2008 is based on a 6.5% discount rate, and 7.75% return on Plan assets. Future pension expense or benefit will depend on future investment performance, changes in future discount rates and various other factors related to the employee population participating in our pension plans. As of December 31, 2007, we had unrecognized pension losses of \$47.1 million, of which \$34.2 million is for the U.S. Qualified Pension Plan.

We performed a sensitivity analysis, which expresses the estimated U.S. Qualified Pension Plan pension expense (benefit) that would have resulted for the year ended December 31, 2007, if we changed either the discount rate or the expected return on plan assets.

| Return on Plan Assets | Discount Rate |          |          |
|-----------------------|---------------|----------|----------|
|                       | 6.0%          | 6.5%     | 7.0%     |
|                       | (in millions) |          |          |
| 7.25%                 | \$ 0.2        | \$ (1.0) | \$ (1.9) |
| 7.75%                 | (1.0)         | (2.2)    | (3.1)    |
| 8.25%                 | (2.2)         | (3.4)    | (4.3)    |

The assets of the U.S. Qualified Pension Plan consist primarily of equity and fixed income securities. The value of our U.S. Qualified Pension Plan assets has increased from \$249.0 million at December 31, 2006 to \$254.0 million at December 31, 2007. Our funding policy is to make contributions to the Pension Plan in accordance with local laws and to the extent that such contributions are tax deductible. During 2007, there were no additional contributions made to the U.S. Qualified Pension Plan, and we made \$2.6 million of additional contributions to certain Qualified Plans for non-U.S. subsidiaries. Based upon the U.S. Qualified Pension Plan funded status as of December 31, 2007, we do not expect to make any contributions to this plan in 2008. Contributions that will be made in 2008 to certain Qualified Plans for non-U.S. subsidiaries are based on local statutory requirements and will be approximately \$2.4 million.

#### Equity Compensation Plans

In addition to our 1996 Employee Stock Purchase Plan discussed in Note O: Stock Based Compensation in Notes to Consolidated Financial Statements, we have the 2006 Equity and Cash Compensation Incentive Plan (the 2006 Equity Plan) under which equity securities are authorized for issuance. The 2006 Equity Plan was approved by stockholders on May 25, 2006. The 2006 Equity Plan replaces our 1996 Non-Employee Director Stock Option Plan, our 1997 Employee Stock Option Plan, and our 1991 Employee Stock Option Plan, each of which were terminated upon the shareholders approval of the 2006 Equity Plan. We may not issue any additional option grants or awards under the terminated plans, but the options and awards previously granted and currently outstanding under these plans will remain in effect until the earlier of the date of their exercise, vesting or expiration.

## Edgar Filing: TERADYNE, INC - Form 10-K

The following table presents information about these plans as of December 31, 2007 (share numbers in thousands):

| Plan category                                | Number of securities to be issued upon exercise of outstanding options, warrants and rights | Weighted-average exercise price of outstanding options, warrants and rights | Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (1)) |
|--|---|---|---|
| Equity plans approved by shareholders        | 5,472(1)  | \$ 18.75  | 15,688(3)   |
| Equity plans not approved by shareholders(4) | 13,292(2)   | \$ 20.64  |   |
| <b>Total</b>                                 | <b>18,764</b>   | <b>\$ 20.25</b>   | <b>15,688</b>   |

- (1) Includes 2,022,000 shares of restricted stock units that are not included in the calculation of the weighted average exercise price.
- (2) Includes 177,000 shares of restricted stock units that are not included in the calculation of the weighted average exercise price.
- (3) Consists of 9,980,000 securities available for issuance under the 2006 Equity Plan and 5,708,000 of securities available for issuance under the Employee Stock Purchase Plan.
- (4) In connection with the acquisition of GenRad, Inc. in October 2001 (the "Acquisition"), we assumed the outstanding options granted under the GenRad, Inc. 1991 Equity Incentive Plan, the GenRad, Inc. 1991 Directors' Stock Option Plan and the GenRad, Inc. 1997 Non-Qualified Employee Stock Option Plan (collectively, the "GenRad Plans"). Upon the consummation of the Acquisition, these options became exercisable for shares of our common stock based on an exchange ratio of 0.1733 shares of our common stock for each share of GenRad's common stock. No additional options will be granted pursuant to the GenRad Plans. As of December 31, 2007, there were outstanding options exercisable for an aggregate of 139,000 shares of our common stock pursuant to the GenRad Plans, with a weighted average exercise price of \$68.56 per share.

The purpose of the 2006 Equity Plan is to motivate employees, officers, directors, consultants and advisors by providing equity ownership and compensation opportunities in Teradyne. The aggregate number of shares available under the 2006 Equity Plan as of December 31, 2007 was 9,980,000 shares of our common stock. The 2006 Equity Plan authorizes the grant of stock-based awards in the form of (1) non-qualified and incentive stock options, (2) stock appreciation rights, (3) restricted stock awards and restricted stock unit awards, (4) phantom stock, and (5) other stock-based awards. Awards may be tied to time-based vesting schedules and/or performance-based vesting measured by reference to performance criteria chosen by the Compensation Committee of the Board of Directors, which administers the 2006 Equity Plan. Awards may be made to any employee, officer, consultant and advisor of Teradyne and our subsidiaries, as well as, to our directors. The maximum number of shares of stock-based awards that may be granted to one participant during any one fiscal year is 2,000,000 shares of common stock. The 2006 Equity Plan will expire on May 24, 2016. In 2007 and 2006, we only issued restricted stock unit awards to our employees and directors.

As of December 31, 2007 total unrecognized compensation expense related to non-vested awards and options totaled \$24.9 million, and is expected to be recognized over a weighted average period of 2.91 years.

### Performance Graph

The following graph compares the change in our cumulative total shareholder return in our common stock with the Standard & Poor's 500 Index and the S&P Information Technology 500 Index. The comparison assumes \$100.00 was invested on December 31, 2002 in our common stock and in each of the foregoing indices and assumes reinvestment of dividends, if any.

|                                      | 2002      | 2003      | 2004      | 2005      | 2006      | 2007      |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Teradyne, Inc.                       | \$ 100.00 | \$ 195.62 | \$ 131.21 | \$ 111.99 | \$ 114.99 | \$ 79.48  |
| S&P 500 Index                        | \$ 100.00 | \$ 128.63 | \$ 142.59 | \$ 149.58 | \$ 173.15 | \$ 182.64 |
| S&P Information Technology 500 Index | \$ 100.00 | \$ 147.22 | \$ 150.97 | \$ 152.47 | \$ 165.29 | \$ 192.19 |

- (1) This graph is not soliciting material, is not deemed filed with the SEC and is not to be incorporated by reference in any other filing under the Securities Act or the Exchange Act whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.
- (2) The stock price performance shown on the graph is not necessarily indicative of future price performance. Information used on the graph was obtained from Hewitt Associates, a source believed to be reliable, but we are not responsible for any errors or omissions in such information.

**Related Party Transaction**

During 2007, Paul Tufano, a member of our Board of Directors, was Executive Vice President, Chief Financial Officer and Interim Chief Executive Officer of Solectron Corporation until it was acquired by Flextronics in October 2007. Mr. Tufano is no longer an employee of Solectron or Flextronics. In the ordinary course of business, we have for the last ten years purchased printed circuit board assemblies from Solectron, and have also sold in-circuit testers to Solectron which we refer to as Flextronics. In August 2007, prior to the Flextronics acquisition, we expanded our contract with Solectron to have it provide additional manufacturing and test services, including areas of final configuration and test for most of our FLEX family of products. In the years ended December 31, 2007, 2006 and 2005, we purchased \$207.8 million, \$229.9 million and \$153.1 million of printed circuit board assemblies and services from Flextronics, respectively. Sales of in-circuit testers to Flextronics for the years ended December 31, 2007, 2006 and 2005 were \$4.0 million, \$5.7 million and \$5.7 million respectively. As of December 31, 2007 and 2006, \$19.8 million and \$7.0 million, respectively, was included in accounts payable and \$17.5 million and \$1.3 million, respectively, was included in accounts receivable, representing amounts due to/from Flextronics. We believe that these purchases and sales were made on terms and conditions that were fair and not less favorable than could have been obtained from unaffiliated third parties.

**Recently Issued Accounting Pronouncements**

In September 2006, the Financial Accounting Standards Board ( FASB ) issued Statement of Financial Accounting Standards No. 157, Fair Value Measurements ( SFAS No. 157 ). SFAS No. 157 establishes a framework for measuring fair value and requires expanded disclosures regarding fair value measurements. This accounting standard is effective for financial statements issued for fiscal years beginning after November 15, 2007. We are currently evaluating the impact of adopting this standard.

In December 2007, the FASB issued SFAS No. 141(R), Business Combinations. This Statement replaces FASB Statement No. 141, Business Combinations. SFAS No. 141(R) establishes new principles and requirements for how an acquiring company 1) recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any non-controlling interest in the acquiree, 2) recognizes and measures the goodwill acquired in a business combination or a gain from a bargain purchase, and 3) determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. SFAS No. 141(R) is effective for business combinations occurring on or after the beginning of the fiscal year beginning on or after December 15, 2008. We are currently evaluating the impact of adopting this standard.

**Item 7A: *Quantitative and Qualitative Disclosures About Market Risks***  
**Concentration of Credit Risk**

Financial instruments which potentially subject us to concentrations of credit risk consist principally of cash investments, forward currency contracts and accounts receivable. We maintain cash and marketable securities investments primarily in U.S. Treasury and government agency securities and corporate debt securities, rated A or higher, which have minimal credit risk. The overall weighted average portfolio quality will be maintained at a minimum of AA- or better at all times. We place forward currency contracts with high credit-quality financial institutions in order to minimize credit risk exposure. Concentrations of credit risk with respect to accounts receivable are limited due to the large number of geographically dispersed customers. We perform ongoing credit evaluations of our customers' financial condition and from time to time may require customers to provide a letter of credit from a bank to secure accounts receivable.

**Exchange Rate Risk Management**

We regularly enter into foreign currency forward contracts to hedge the value of our net monetary assets in the European Euro, Great Britain Pound, Japanese Yen and the Taiwan Dollar. These foreign currency forward contracts have maturities of less than one year. These contracts are used to reduce our risk associated with exchange rate movements, as gains and losses on these contracts are intended to offset exchange losses and gains on underlying exposures. In addition, we periodically hedge anticipated cash flow transactions with foreign currency forward contracts. The gains and losses on these contracts are deferred and recognized in the same period as the hedged transaction is recognized in income. We do not engage in currency speculation.

We performed a sensitivity analysis assuming a hypothetical 10% fluctuation in foreign exchange rates to the hedging contracts and the underlying exposures described above. As of December 31, 2007, 2006, and 2005, the analysis indicated that these hypothetical market movements would not have a material effect on our consolidated financial position, results of operations or cash flows.

**Interest Rate Risk Management**

We are exposed to potential loss due to changes in interest rates. The principal interest rate exposure is to changes in domestic interest rates. Investments with interest rate risk include short and long-term marketable securities.

In order to estimate the potential loss due to interest rate risk, a 10% fluctuation in interest rates was assumed. Market risk for the short and long-term marketable securities was estimated as the potential change in the fair value resulting from a hypothetical change in interest rates for securities contained in the investment portfolio. On these bases, the potential change in fair value from changes in interest rates is \$0.3 million and \$2.6 million as of December 31, 2007 and 2006, respectively.

**Item 8: Financial Statements and Supplementary Data**  
**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Shareholders of Teradyne, Inc. (the Company):

In our opinion, the consolidated financial statements listed in the index appearing under Item 15(a)(1) present fairly, in all material respects, the financial position of Teradyne, Inc. and its subsidiaries at December 31, 2007 and 2006, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2007 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the index appearing under Item 15 (a)(2) present fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2007, based on criteria established in *Internal Control - Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements and financial statement schedule, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Annual Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on these financial statements, on the financial statement schedule, and on the Company's internal control over financial reporting based on our integrated 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 audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As discussed in Note R to the consolidated financial statements, the Company changed the manner in which it accounts for uncertain tax positions in 2007. As discussed in Notes B and N to the consolidated financial statements, the Company changed the manner in which it accounts for share-based compensation in 2006 and the manner in which it accounts for defined benefit pension and other postretirement plans effective December 31, 2006.

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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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.

/s/ PRICEWATERHOUSECOOPERS LLP

Boston, Massachusetts

February 28, 2008

## TERADYNE, INC.

## CONSOLIDATED BALANCE SHEETS

December 31, 2007 and 2006

|   | 2007<br>(in thousands, except per<br>share information) | 2006         |
|---|---|--------------|
| <b>ASSETS</b>   |   |              |
| Current assets:   |   |              |
| Cash and cash equivalents   | \$ 562,371  | \$ 568,025   |
| Marketable securities   | 75,593  | 47,766       |
| Accounts receivable, less allowance for doubtful accounts of \$4,493 and \$4,964 in 2007 and 2006, respectively | 189,487   | 155,770      |
| Inventories   |   |              |
| Parts   | 27,627  | 50,868       |
| Assemblies in process   | 31,272  | 26,160       |
| Finished goods  | 21,414  | 15,785       |
|   | 80,313  | 92,813       |
| Prepayments and other current assets  | 37,169  | 21,527       |
| Current assets of discontinued operations   |   | 3,509        |
| Total current assets  | 944,933   | 889,410      |
| Property, plant and equipment:  |   |              |
| Land  | 24,579  | 26,092       |
| Buildings and improvements  | 198,287   | 202,522      |
| Machinery and equipment   | 601,031   | 627,972      |
| Construction in progress  | 1,874   | 5,476        |
| Total   | 825,771   | 862,062      |
| Less: Accumulated depreciation  | 473,064   | 496,541      |
| Net property, plant and equipment   | 352,707   | 365,521      |
| Marketable securities   | 104,978   | 328,827      |
| Goodwill  | 69,147  | 69,147       |
| Intangible and other assets   | 37,127  | 35,819       |
| Retirement plans assets   | 46,396  | 31,503       |
| Long-term assets of discontinued operations   |   | 828          |
| Total assets  | \$ 1,555,288  | \$ 1,721,055 |
| <b>LIABILITIES</b>  |   |              |
| Current liabilities:  |   |              |
| Accounts payable  | 57,426  | 39,918       |
| Accrued employees' compensation and withholdings  | 71,691  | 87,811       |
| Deferred revenue and customer advances  | 41,928  | 44,053       |
| Other accrued liabilities   | 47,002  | 47,023       |
| Accrued income taxes  | 5,187   | 36,052       |
| Current liabilities of discontinued operations  |   | 4,859        |
| Total current liabilities   | 223,234   | 259,716      |
| Retirement plans liabilities  | 80,388  | 81,121       |
| Long-term other accrued liabilities   | 22,492  | 18,352       |

Edgar Filing: TERADYNE, INC - Form 10-K

|   |              |              |
|---|--------------|--------------|
| Long-term liabilities of discontinued operations  |              | 679          |
| Total liabilities   | 326,114      | 359,868      |
| Commitments and contingencies (Note K)  |              |              |
| <b>SHAREHOLDERS EQUITY</b>  |              |              |
| Common stock, \$0.125 par value, 1,000,000 shares authorized, 173,088 and 188,952 shares issued and outstanding at December 31, 2007 and 2006, respectively | 21,636       | 23,619       |
| Additional paid-in capital  | 1,105,441    | 1,179,015    |
| Accumulated other comprehensive loss  | (46,028)     | (66,309)     |
| Retained earnings   | 148,125      | 224,862      |
| Total shareholders equity   | 1,229,174    | 1,361,187    |
| Total liabilities and shareholders equity   | \$ 1,555,288 | \$ 1,721,055 |

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

## TERADYNE, INC.

## CONSOLIDATED STATEMENTS OF OPERATIONS

|  | Years Ended December 31,                 |              |            |
|--|--|--------------|------------|
|  | 2007                                     | 2006         | 2005       |
|  | (in thousands, except per share amounts) |              |            |
| Net revenue:   |  |              |            |
| Products   | \$ 861,583                               | \$ 1,118,811 | \$ 847,246 |
| Services   | 240,697                                  | 237,438      | 197,858    |
| Total net revenue  | 1,102,280                                | 1,356,249    | 1,045,104  |
| Cost of revenues:  |  |              |            |
| Cost of products   | 430,464                                  | 550,312      | 502,231    |
| Cost of services   | 158,383                                  | 154,055      | 147,815    |
| Total cost of revenue  | 588,847                                  | 704,367      | 650,046    |
| Gross profit   | 513,433                                  | 651,882      | 395,058    |
| Operating expenses:  |  |              |            |
| Engineering and development                                    | 204,344                                  | 202,436      | 216,373    |
| Selling and administrative                                     | 250,841                                  | 283,012      | 245,988    |
| In-process Research and Development                            | 16,700                                   |              |            |
| Restructuring and other, net                                   | (659)                                    | (36,033)     | 17,644     |
| Total operating expenses                                       | 471,226                                  | 449,415      | 480,005    |
| Income (loss) from operations                                  | 42,207                                   | 202,467      | (84,947)   |
| Interest income  | 35,893                                   | 44,624       | 17,790     |
| Interest expense   | (689)                                    | (11,060)     | (16,229)   |
| Other income and expense, net                                  | 1,832                                    |              |            |
| Income (loss) from continuing operations before income taxes   | 79,243                                   | 236,031      | (83,386)   |
| Provision (benefit) for income taxes                           | 7,360                                    | 27,869       | (19,730)   |
| Income (loss) from continuing operations                       | 71,883                                   | 208,162      | (63,656)   |
| Income (loss) from discontinued operations before income taxes | 6,346                                    | (5,636)      | 186,653    |
| Provision for income taxes                                     | 518                                      | 3,769        | 32,349     |
| Income (loss) from discontinued operations                     | 5,828                                    | (9,405)      | 154,304    |
| Net income   | \$ 77,711                                | \$ 198,757   | \$ 90,648  |
| Income (loss) from continuing operations:                      |  |              |            |
| Basic  | \$ 0.39                                  | \$ 1.07      | \$ (0.32)  |
| Diluted  | \$ 0.39                                  | \$ 1.06      | \$ (0.32)  |
| Net income per common share:                                   |  |              |            |
| Basic  | \$ 0.42                                  | \$ 1.02      | \$ 0.46    |
| Diluted  | \$ 0.42                                  | \$ 1.01      | \$ 0.46    |
| Weighted average common shares basic                           | 184,020                                  | 194,729      | 196,283    |

Edgar Filing: TERADYNE, INC - Form 10-K

|  |         |         |         |
|--|---------|---------|---------|
| Weighted average common shares diluted | 185,374 | 204,414 | 196,283 |
|--|---------|---------|---------|

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

## TERADYNE, INC.

## CONSOLIDATED STATEMENTS OF SHAREHOLDERS EQUITY AND COMPREHENSIVE INCOME

Years Ended December 31, 2007, 2006 and 2005

|   | Shares<br>Issued | Common<br>Stock Par<br>Value | Additional<br>Paid-in<br>Capital | Deferred<br>Compen-<br>sation | Accumulated<br>Other<br>Compre-<br>hensive<br>Loss<br>(in thousands) | Retained<br>Earnings | Total<br>Shareholders<br>Equity | Compre-<br>hensive<br>Income |
|---|------------------|------------------------------|----------------------------------|-------------------------------|--|----------------------|---------------------------------|------------------------------|
| Balance, December 31, 2004  | 194,253          | \$ 24,282                    | \$ 1,164,741                     |                               | \$ (61,313)  | \$ 5,854             | \$ 1,133,564                    |                              |
| Issuance of stock to employees under benefit plans  | 2,758            | 344                          | 57,249                           | \$ (22,866)                   |  |                      | 34,727                          |                              |
| Amortization of unearned compensation   |                  |                              |                                  | 762                           |  |                      | 762                             |                              |
| Comprehensive income:   |                  |                              |                                  |                               |  |                      |                                 |                              |
| Net income  |                  |                              |                                  |                               |  | 90,648               | 90,648                          | \$ 90,648                    |
| Foreign currency translation adjustment   |                  |                              |                                  |                               | (1,218)  |                      | (1,218)                         | (1,218)                      |
| Unrealized gain on cash flow hedge  |                  |                              |                                  |                               | 305  |                      | 305                             | 305                          |
| Unrealized loss on investments, net of applicable tax of \$0  |                  |                              |                                  |                               | (5,111)  |                      | (5,111)                         | (5,111)                      |
| Increase in additional minimum pension liability, net of applicable tax of \$1,712                    |                  |                              |                                  |                               | (11,011)   |                      | (11,011)                        | (11,011)                     |
| Total comprehensive income  |                  |                              |                                  |                               |  |                      |                                 | \$ 73,613                    |
| Balance, December 31, 2005  | 197,011          | 24,626                       | 1,221,990                        | (22,104)                      | (78,348)   | 96,502               | 1,242,666                       |                              |
| Issuance of stock to employees under benefit plans, net of shares withheld for payroll tax of \$2,635 | 2,551            | 319                          | 20,318                           |                               |  |                      | 20,637                          |                              |
| Stock-based compensation expense  |                  |                              | 2,547                            | 22,104                        |  |                      | 24,651                          |                              |
| Repurchase of stock   | (10,610)         | (1,326)                      | (65,840)                         |                               |  | (70,397)             | (137,563)                       |                              |
| Comprehensive income:   |                  |                              |                                  |                               |  |                      |                                 |                              |
| Net income  |                  |                              |                                  |                               |  | 198,757              | 198,757                         | \$ 198,757                   |
| Foreign currency translation adjustment   |                  |                              |                                  |                               | 2,723  |                      | 2,723                           | 2,723                        |
| Unrealized loss on cash flow hedge  |                  |                              |                                  |                               | (30)   |                      | (30)                            | (30)                         |
| Unrealized gain on investments, net of applicable tax of \$0  |                  |                              |                                  |                               | 2,807  |                      | 2,807                           | 2,807                        |
| Decrease in additional minimum pension liability, net of applicable tax of \$8,057                    |                  |                              |                                  |                               | 71,164   |                      | 71,164                          | 71,164                       |
| Adjustment to initially apply SFAS 158, net of applicable tax of \$2,827                              |                  |                              |                                  |                               | (64,625)   |                      | (64,625)                        |                              |
| Total comprehensive income  |                  |                              |                                  |                               |  |                      |                                 | \$ 275,421                   |
| Balance, December 31, 2006  | 188,952          | 23,619                       | 1,179,015                        |                               | (66,309)   | 224,862              | 1,361,187                       |                              |
| Issuance of stock to employees under benefit plans, net of shares withheld for payroll tax of \$2,653 | 2,454            | 307                          | 20,211                           |                               |  |                      | 20,518                          |                              |
| Stock-based compensation expense, net of tax of \$0   |                  |                              | 23,142                           |                               |  |                      | 23,142                          |                              |
| Repurchase of stock   | (18,318)         | (2,290)                      | (116,927)                        |                               |  | (154,448)            | (273,665)                       |                              |
| Comprehensive income:   |                  |                              |                                  |                               |  |                      |                                 |                              |
| Net income  |                  |                              |                                  |                               |  | 77,711               | 77,711                          | \$ 77,711                    |
| Foreign currency translation adjustment   |                  |                              |                                  |                               | (741)  |                      | (741)                           | (741)                        |
| Unrealized gain on investments, net of tax of \$0   |                  |                              |                                  |                               | 3,454  |                      | 3,454                           | 3,454                        |
| Actuarial gain arising during period, net of tax of \$817   |                  |                              |                                  |                               | 13,216   |                      | 13,216                          | 13,216                       |
| Amortization included in net periodic pension and postretirement costs:                               |                  |                              |                                  |                               |  |                      |                                 |                              |
| Actuarial gains, net of tax of \$112  |                  |                              |                                  |                               | 3,788  |                      | 3,788                           | 3,788                        |
| Prior service costs, net of tax of \$0  |                  |                              |                                  |                               | 613  |                      | 613                             | 613                          |
| Net transition asset, net of tax of (\$19)  |                  |                              |                                  |                               | (49)   |                      | (49)                            | (49)                         |
| Total comprehensive income  |                  |                              |                                  |                               |  |                      |                                 | \$ 97,992                    |

Edgar Filing: TERADYNE, INC - Form 10-K

|                            |         |           |              |    |             |            |              |
|----------------------------|---------|-----------|--------------|----|-------------|------------|--------------|
| Balance, December 31, 2007 | 173,088 | \$ 21,636 | \$ 1,105,441 | \$ | \$ (46,028) | \$ 148,125 | \$ 1,229,174 |
|----------------------------|---------|-----------|--------------|----|-------------|------------|--------------|

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

## TERADYNE, INC.

## CONSOLIDATED STATEMENTS OF CASH FLOWS

|  | Years Ended December 31, |                  |                  |
|--|--------------------------|------------------|------------------|
|  | 2007                     | 2006             | 2005             |
|  | (in thousands)           |                  |                  |
| <b>Cash flows from operating activities:</b>   |                          |                  |                  |
| Net income   | \$ 77,711                | \$ 198,757       | \$ 90,648        |
| Less: (Loss) income from discontinued operations   | (68)                     | (9,405)          | 17,351           |
| Less: Gain on disposal of discontinued operations (Note E)   | 5,896                    |                  | 136,953          |
| <b>Income (loss) from continuing operations</b>  | <b>71,883</b>            | <b>208,162</b>   | <b>(63,656)</b>  |
| Adjustments to reconcile income (loss) from continuing operations to net cash provided (used for) by operating activities: |                          |                  |                  |
| Depreciation   | 59,384                   | 68,253           | 84,362           |
| Amortization   | 8,111                    | 4,829            | 5,898            |
| Stock-based compensation   | 23,474                   | 23,509           | 762              |
| Impairment of long-lived assets  |                          | 50               | 8,331            |
| In-process research and development  | 16,700                   |                  |                  |
| Gain on sale of product lines  | (906)                    | (406)            | (4,068)          |
| Gain on sale of land and buildings   | (3,597)                  | (39,098)         | (15,329)         |
| Provision for doubtful accounts  |                          | 227              | 89               |
| Provision for inventory obsolescence   | 1,835                    | 12,815           | 49,033           |
| Deferred income tax credit   | (750)                    | (4,008)          | (30,955)         |
| Tax credit related to pension funding  |                          | 6,026            |                  |
| Other non-cash items, net  | (171)                    | 3,466            | (1,841)          |
| Changes in operating assets and liabilities, net of businesses and product lines sold and acquired:                        |                          |                  |                  |
| Accounts receivable  | (33,717)                 | 67,939           | (58,738)         |
| Inventories  | 45,179                   | 79,324           | 69,922           |
| Other assets   | (24,958)                 | 6,569            | 3,158            |
| Accounts payable, deferred revenue and accruals  | 2,753                    | 12,636           | (13,301)         |
| Retirement plan contributions  | (2,616)                  | (30,232)         | (40,091)         |
| Accrued income taxes   | (30,865)                 | 32,818           | (10,181)         |
| <b>Net cash provided by (used for) continuing operations</b>   | <b>131,739</b>           | <b>452,879</b>   | <b>(16,605)</b>  |
| <b>Net cash (used for) provided by discontinued operations</b>   | <b>(3,552)</b>           | <b>(2,793)</b>   | <b>30,128</b>    |
| <b>Net cash provided by operating activities</b>   | <b>128,187</b>           | <b>450,086</b>   | <b>13,523</b>    |
| <b>Cash flows from investing activities:</b>   |                          |                  |                  |
| Investments in property, plant and equipment   | (86,088)                 | (110,009)        | (112,675)        |
| Proceeds from sale of land and buildings   | 7,888                    | 84,617           | 34,014           |
| Proceeds from sale of product lines  | 906                      | 406              | 4,068            |
| Acquisition of technology  | (17,600)                 |                  |                  |
| Purchases of available-for-sale marketable securities  | (388,385)                | (396,922)        | (402,911)        |
| Proceeds from sales and maturities of available-for-sale marketable securities   | 589,167                  | 618,495          | 293,060          |
| <b>Net cash provided by (used for) continuing operations</b>   | <b>105,888</b>           | <b>196,587</b>   | <b>(184,444)</b> |
| <b>Net cash provided by (used for) discontinued operations</b>   | <b>10,765</b>            | <b>(408)</b>     | <b>366,418</b>   |
| <b>Net cash provided by investing activities</b>   | <b>116,653</b>           | <b>196,179</b>   | <b>181,974</b>   |
| <b>Cash flows from financing activities:</b>   |                          |                  |                  |
| Payments of long-term debt and notes payable   |                          | (304,648)        | (98,673)         |
| Repurchase of common stock   | (273,665)                | (137,563)        |                  |
| Issuance of common stock under stock option and stock purchase plans   | 23,171                   | 23,272           | 34,728           |
| <b>Net cash used for financing activities</b>  | <b>(250,494)</b>         | <b>(418,939)</b> | <b>(63,945)</b>  |
| <b>(Decrease) increase in cash and cash equivalents</b>  | <b>(5,654)</b>           | <b>227,326</b>   | <b>131,552</b>   |



Edgar Filing: TERADYNE, INC - Form 10-K

|  |            |            |            |
|--|------------|------------|------------|
| Cash and cash equivalents at beginning of year     | 568,025    | 340,699    | 209,147    |
| Cash and cash equivalents at end of year           | \$ 562,371 | \$ 568,025 | \$ 340,699 |
| Supplementary disclosure of cash flow information: |            |            |            |
| Cash paid during the year for:                     |            |            |            |
| Interest   | \$ 1,286   | \$ 12,469  | \$ 15,037  |
| Income taxes paid                                  | \$ 31,584  | \$ 6,763   | \$ 17,748  |

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

---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

**A. THE COMPANY**

Teradyne, Inc. is a leading global supplier of automatic test equipment.

Teradyne's automatic test equipment products and services include:

semiconductor test ( Semiconductor Test ), and

circuit-board test and inspection systems, military/aerospace ( Mil/Aero ) test instrumentation and systems and automotive diagnostic and test systems ( Systems Test Group )

**B. ACCOUNTING POLICIES**

**Basis of Presentation**

The consolidated financial statements include the accounts of Teradyne and its wholly-owned subsidiaries. All significant intercompany balances and transactions are eliminated. Certain prior years' amounts were reclassified to conform to the current year presentation.

In August 2007, the company sold Broadband Test Division, its Digital Subscriber Line and telephone network test division. In November 2005, the company sold Teradyne Connection Systems, its interconnection systems product and services division. The results of operations of Broadband Test Division and Teradyne Connection Systems as well as balance sheet amounts pertaining to these businesses have been classified as discontinued operations in the consolidated financial statements (see Note E: Discontinued Operations).

**Preparation of Financial Statements and Use of Estimates**

The preparation of consolidated financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent liabilities. On an on-going basis, management evaluates its estimates, including those related to inventories, investments, goodwill, intangible and other long-lived assets, doubtful accounts, income taxes, pensions, warranties, and loss contingencies. Management bases its estimates on historical experience and on appropriate and customary assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ significantly from these estimates.

**Revenue Recognition**

Teradyne recognizes revenue when there is persuasive evidence of an arrangement, title and risk of loss have passed, delivery has occurred or the services have been rendered, the sales price is fixed or determinable and collection of the related receivable is reasonably assured. Title and risk of loss generally pass to Teradyne's customers upon shipment or at delivery destination point. In circumstances where either title or risk of loss pass upon destination, acceptance or cash payment, Teradyne defers revenue recognition until such events occur.

Teradyne's equipment includes embedded software which is considered incidental to the product. Revenue is recognized upon shipment or at delivery destination point, provided that customer acceptance criteria can be demonstrated prior to shipment. Certain contracts require Teradyne to perform tests of the product to ensure that performance meets the published product specifications or customer requested specifications, which are generally conducted prior to shipment. Where the criteria cannot be demonstrated prior to shipment, revenue is deferred until customer acceptance has been received.



---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**B. ACCOUNTING POLICIES (Continued)**

For multiple element arrangements Teradyne defers the fair value of any undelivered elements of the contract. For a delivered item to be considered a separate unit, the delivered item must have value to the customer on a standalone basis, there must be objective and reliable evidence of fair value of the undelivered items in the arrangement and the delivery or performance of the undelivered item must be considered probable and substantially in the control of Teradyne. Teradyne also defers the portion of the sales price that is not due until acceptance, which represents deferred profit. Fair value is the price charged when the element is sold separately. Teradyne's post-shipment obligations include installation, training services, one-year standard warranties, and extended warranties. Installation does not alter the product capabilities, does not require specialized skills or tools and can be performed by the customers or other vendors. Installation is typically provided within five to fifteen days of product shipment and is completed within one to two days thereafter. Training services are optional and do not affect the customer's ability to use the product. Teradyne defers revenue for the fair value of installation and training. Extended warranties constitute warranty obligations beyond one year and Teradyne defers revenue in accordance with Financial Accounting Standards Board (FASB) Technical Bulletin 90-1.

Teradyne's products are generally subject to warranty and related costs of the warranty are provided for in cost of revenue when product revenue is recognized. Teradyne classifies shipping and handling costs in cost of revenue. Service revenue is recognized over the contractual period or as the services are performed.

Teradyne generally does not provide its customers with contractual rights of return for any of its products.

For transactions involving the sale of software which is not incidental to the product, revenue is recognized in accordance with American Institute of Certified Public Accountants (AICPA) Statement of Position No. 97-2, Software Revenue Recognition, as amended by SOP No. 98-9 Modification of SOP 97-2, Software Revenue Recognition, With Respect to Certain Transactions (SOP 97-2). Teradyne recognizes revenue when there is persuasive evidence of an arrangement, delivery has occurred, the sales price is fixed or determinable and collectibility is probable. In instances where an arrangement contains multiple elements, revenue is deferred related to the undelivered elements to the extent that vendor-specific objective evidence of fair value (VSOE) exists for such elements. In instances where VSOE does not exist for one or more of the undelivered elements of an arrangement, all revenue related to the arrangement is deferred until all elements have been delivered. VSOE is the price charged when the element is sold separately. Revenue for the separate elements is only recognized where the functionality of the undelivered element is not essential to the delivered element.

For certain contracts eligible for contract accounting under SOP No. 81-1 Accounting for Performance of Construction-Type and Certain Production-Type Contracts, revenue is recognized using the percentage-of-completion accounting method based upon the percentage of incurred costs to estimated total costs. These arrangements require significant production, modification or customization. In all cases, changes to total estimated costs and anticipated losses, if any, are recognized in the period in which they are determined. With respect to contract change orders, claims or similar items, judgment must be used in estimating related amounts and assessing the potential for realization. Such amounts are only included in the contract value when they can be reliably estimated and realization is reasonably assured, generally upon receipt of a customer approved change order. As of December 31, 2007 and 2006, Teradyne had \$10.5 million and \$16.9 million in unbilled amounts on long-term contracts included in accounts receivable, respectively. These amounts will be billed on a milestone basis in accordance with contractual terms.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**B. ACCOUNTING POLICIES (Continued)****Inventories**

Inventories, which include materials, labor, and manufacturing overhead, are stated at the lower of cost (first-in, first-out basis) or net realizable value. On a quarterly basis, Teradyne uses consistent methodologies to evaluate all inventory for net realizable value. Teradyne records a provision for both excess and obsolete inventory when such write-downs or write-offs are identified through the quarterly review process. The inventory valuation is based upon assumptions about future demand, product mix and possible alternative uses. Teradyne's inventory balance at December 31, 2007 was \$80.3 million, net of write-downs to net realizable value of \$105.6 million.

**Property, Plant and Equipment**

Property, plant and equipment are stated at cost and depreciated over the estimated useful lives of the assets. Leasehold improvements and major renewals are capitalized and included in property, plant and equipment accounts while expenditures for maintenance and repairs and minor renewals are charged to expense. When assets are retired, the assets and related allowances for depreciation and amortization are removed from the accounts and any resulting gain or loss is reflected in operations.

Teradyne provides for depreciation of its assets principally on the straight line method with the cost of the assets being charged to expense over their useful lives as follows:

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Buildings                            | 40 years                            |
| Building improvements                | 5 to 10 years                       |
| Leasehold improvements               | Lesser of lease term or useful life |
| Furniture and fixtures               | 10 years                            |
| Test systems manufactured internally | 6 years                             |
| Machinery and equipment              | 3 to 5 years                        |
| Software                             | 3 to 5 years                        |

Test systems manufactured internally are used by Teradyne for customer evaluations and manufacturing and support of its customers. Teradyne depreciates the test systems manufactured internally over a six-year life to cost of revenues and selling and administrative expenses. Teradyne often sells internally manufactured test equipment to customers. Upon the sale of an internally manufactured test system, the net book value of the system is transferred to inventory and expensed as cost of revenues. The net book value of internally manufactured test systems sold in the years ended December 31, 2007, 2006 and 2005 was \$33.0 million, \$40.0 million and \$47.6 million, respectively.

**Goodwill, Intangible and Long-Lived Assets**

Teradyne accounts for its goodwill and intangible assets in accordance with Statement of Financial Accounting Standards ( SFAS ) No. 142, Goodwill and Other Intangible Assets. Intangible assets are amortized over their estimated useful economic life and are carried at cost less accumulated amortization. Goodwill is assessed for impairment at least annually in the fourth quarter, on a reporting unit basis, or more frequently when events and circumstances occur indicating that the recorded goodwill may be impaired. If the book value of a reporting unit exceeds its fair value, the implied fair value of goodwill is compared with the carrying amount of goodwill. If the carrying amount of goodwill exceeds the implied fair value, an impairment loss is recorded in an amount equal to that excess.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**B. ACCOUNTING POLICIES (Continued)**

In accordance with SFAS No. 144 Accounting for the Impairment or Disposal of Long-Lived Assets, Teradyne reviews long-lived assets for impairment whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable or that the useful lives of these assets are no longer appropriate. Each impairment test is based on a comparison of the estimated undiscounted cash flows to the recorded value of the asset. If impairment is indicated, the asset is written down to its estimated fair value based on a discounted cash flow analysis. The cash flow estimates used to determine the impairment, if any, contain management's best estimates using appropriate assumptions and projections at that time.

**Engineering and Development Costs**

Teradyne's products are highly technical in nature and require a large and continuing engineering and development effort. Software development costs incurred prior to the establishment of technological feasibility are charged to expense. Software development costs incurred subsequent to the establishment of technological feasibility are capitalized until the product is available for release to customers. To date, the period between achieving technological feasibility and general availability of the product has been short and software development costs eligible for capitalization have not been material. Engineering and development costs are expensed as incurred and consist primarily of salaries, contractor fees, building costs, depreciation, and tooling costs.

**Advertising Costs**

Teradyne expenses all advertising costs as incurred. Advertising costs were \$2.4 million, \$2.7 million and \$2.4 million in 2007, 2006 and 2005, respectively.

**Product Warranty**

Teradyne generally provides a one-year warranty on its products, commencing upon installation or shipment. A provision is recorded upon revenue recognition to cost of revenues for estimated warranty expense based upon historical experience. Related costs are charged to the warranty accrual as incurred. The balance below is included in other accrued liabilities.

|  | <b>Balance<br/>(in thousands)</b> |
|--|-----------------------------------|
| Balance at December 31, 2005                     | \$ 10,496                         |
| Accruals for warranties issued during the period | 19,563                            |
| Settlements made during the period               | (17,162)                          |
| Balance at December 31, 2006                     | 12,897                            |
| Accruals for warranties issued during the period | 11,369                            |
| Settlements made during the period               | (14,926)                          |
| Balance at December 31, 2007                     | \$ 9,340                          |

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## B. ACCOUNTING POLICIES (Continued)

When Teradyne receives revenue for extended warranties beyond one year, it is deferred and recognized on a straight-line basis over the contract period. Related costs are expensed as incurred. The balance below is included in long-term other accrued liabilities.

|   | Balance<br>(in thousands) |
|---|---------------------------|
| Balance at December 31, 2005                      | \$ 5,596                  |
| Deferral of new extended warranty revenue         | 5,777                     |
| Recognition of extended warranty deferred revenue | (3,023)                   |
| Balance at December 31, 2006                      | 8,350                     |
| Deferral of new extended warranty revenue         | 3,997                     |
| Recognition of extended warranty deferred revenue | (5,737)                   |
| Balance at December 31, 2007                      | \$ 6,610                  |

## Stock Compensation Plans and Employee Stock Purchase Plan

*Equity Plans and Employee Stock Purchase Plan*

Under its stock compensation plans, Teradyne has granted stock options and restricted stock units, and employees are eligible to purchase Teradyne's common stock through its Employee Stock Purchase Plan ( ESPP ).

Stock options to purchase Teradyne's common stock at 100% of the fair market value on the grant date generally vest in equal installments over four years from the grant date and have a maximum term of seven years. Options granted to non-employee directors on or after February 5, 2001 are immediately vested, fully exercisable and have a maximum term of either five or seven years.

Restricted stock unit awards granted to employees prior to 2006 (excluding executive officers) vest over a two year period, with 50% vesting on each of the first and the second anniversaries of the grant date. Restricted stock unit awards granted to employees in 2006 and 2007 (excluding executive officers) vest in equal annual installments over four years. Restricted stock unit awards granted to non-employee directors vest after a one year period, with 100% of the award vesting on the first anniversary of the grant date. Restricted stock unit awards granted to executive officers, including the CEO, in January 2006, vest over two years. Restricted stock unit awards granted to executive officers, including the CEO, in January 2007 vest over four years. A portion of the restricted stock unit awards granted to executive officers, including the CEO, is subject to time-based vesting and a portion of the awards is subject to performance-based vesting. The percentage level of performance satisfied for performance-based grants is assessed on or near the anniversary of the grant date and, in turn, that percentage level determines the number of performance-based restricted stock units available for vesting over the vesting period; portions of the performance-based grants not available for vesting will be forfeited. Restricted stock units do not have common stock voting rights, and the shares underlying the restricted stock units are not considered issued and outstanding until they become vested. Teradyne expenses the cost of the restricted stock unit awards, which is determined to be the fair market value of the shares at the date of grant, ratably over the period during which the restrictions lapse.

Under the ESPP, eligible employees (including executive officers) may purchase shares of common stock through regular payroll deductions of up to 10% of their eligible compensation. The price paid for the common stock is equal to 85% of the lower of the fair market value of Teradyne's common stock on the first business day and the last business day of the purchase period. There are two six-month purchase periods in each fiscal year.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## B. ACCOUNTING POLICIES (Continued)

Effective January 1, 2006, Teradyne adopted the fair value recognition provision of Financial Accounting Standards No. 123 (revised 2004)

Share Based Payment ( SFAS 123R ), using the modified prospective transition method and therefore has not restated results for prior periods. Under this transition method, stock based compensation expense for the years ended December 31, 2007 and 2006 includes compensation expense for all stock-based compensation awards granted prior to, but not yet vested as of January 1, 2006, and is calculated based on the grant date fair value estimated in accordance with the original provisions of SFAS No. 123 Accounting for Stock Based Compensation ( SFAS 123 ). Stock-based compensation expense for all stock-based compensation awards granted after January 1, 2006 is based on the grant-date fair value estimated in accordance with SFAS 123R. As required by SFAS 123R, Teradyne has made an estimate of expected forfeitures and is recognizing compensation costs only for those stock-based compensation awards expected to vest.

Prior to the adoption of SFAS 123R, Teradyne accounted for its equity incentive plans and employee stock purchase plans under the recognition and measurement principles of Accounting Principles Board Opinion No. 25, Accounting for Stock Issued to Employees and related Interpretations ( APB 25 ). In March 2005, the SEC issued Staff Accounting Bulletin No. 107 ( SAB 107 ) regarding the SEC's interpretation of SFAS 123R and the valuation of share-based payments for public companies. Teradyne has applied provisions of SAB 107 in its adoption of SFAS 123R. The cumulative effect of the initial adoption of SFAS 123R was not material.

The pro-forma table below reflects the effect of recording stock-based compensation on loss from continuing operations and net income for the year ended December 31, 2005, had Teradyne applied the fair value recognition provisions of SFAS 123:

|   | 2005<br>(in millions except per<br>share amounts) |
|---|---|
| Loss from continuing operations as reported   | \$ (63.7)   |
| Add: Stock-based compensation included in loss  | 0.8   |
| Deduct: Total stock-based employee compensation expense determined under fair value method<br>(no tax effects included) | (88.5)  |
| Pro forma loss from continuing operations   | \$ (151.4)  |
| Loss from continuing operations per common share basic, as reported   | \$ (0.32)   |
| Loss from continuing operations per common share diluted, as reported   | \$ (0.32)   |
| Loss from continuing operations per common share basic, pro forma   | \$ (0.77)   |
| Loss from continuing operations per common share diluted, pro forma   | \$ (0.77)   |
| Net income, as reported   | \$ 90.6   |
| Add: Stock-based compensation included in income  | 0.8   |
| Deduct: Total stock-based employee compensation expense determined under fair value method<br>(no tax effects included) | (99.7)  |
| Pro forma net loss  | \$ (8.3)  |
| Net income per common share basic, as reported  | \$ 0.46   |
| Net income per common share diluted, as reported  | \$ 0.46   |



Edgar Filing: TERADYNE, INC - Form 10-K

|  |    |        |
|--|----|--------|
| Net loss per common share basic, pro forma   | \$ | (0.04) |
| Net loss per common share diluted, pro forma | \$ | (0.04) |

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## B. ACCOUNTING POLICIES (Continued)

On May 26, 2005, the Board of Directors approved the accelerated vesting of certain outstanding, unvested out of the money stock options awarded to employees, officers and other eligible participants under Teradyne's various stock option plans. The stock options that were accelerated had exercise prices that were in excess of \$13.26, the closing price of Teradyne's common stock on the New York Stock Exchange on May 26, 2005 and ranged in exercise price from \$13.73 to \$41.37 per share. As a result of the vesting acceleration, options to purchase approximately 7.6 million shares became exercisable immediately and Teradyne reduced the compensation expense it otherwise would have been required to record under SFAS 123R by approximately \$48.6 million on a pre-tax basis over fiscal years 2006, 2007 and 2008.

The effect to income from continuing operations for recording stock-based compensation for the years ended December 31, 2007 and December 31, 2006 was as follows:

|   | For the Year Ended<br>December 31, 2007 | For the Year Ended<br>December 31, 2006 |
|---|---|---|
|   | (in thousands)                          | (in thousands)                          |
| Cost of revenue   | \$ 4,460                                | \$ 4,467                                |
| Engineering and development                               | 7,278                                   | 7,287                                   |
| Selling and administrative                                | 11,736                                  | 11,755                                  |
| Stock-based compensation                                  | 23,474                                  | 23,509                                  |
| Income tax benefit  | (75)                                    | (423)                                   |
| Total stock-based compensation expense after income taxes | \$ 23,399                               | \$ 23,086                               |

The impact on both basic and diluted earnings per share for the year ended December 31, 2007 was \$0.13 per share, and December 31, 2006 was \$0.12 and \$0.11 per share, respectively.

*Valuation Assumptions*

There were no stock options granted in 2007 and 2006.

The weighted-average fair value of employee stock purchase rights granted in the first and last six months of 2007 was \$3.56 and \$2.67, respectively, the first and last six months of 2006 was \$3.81 and \$3.48, respectively, and the first and last six months of 2005 was \$3.08 and \$3.13. The fair value of the employees' purchase rights was estimated using the Black-Scholes option-pricing model with the following assumptions:

|                       | 2007  | 2006  | 2005  |
|-----------------------|-------|-------|-------|
| Expected life (years) | 0.5   | 0.5   | 0.5   |
| Interest rate         | 5.1%  | 4.9%  | 3.9%  |
| Volatility-historical | 24.4% | 34.4% | 36.7% |
| Dividend yield        | 0.0%  | 0.0%  | 0.0%  |

As of December 31, 2007, there were 5.7 million shares available for grant under the ESPP.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## B. ACCOUNTING POLICIES (Continued)

*Restricted Stock Unit and Stock Option Activity:*

Restricted stock unit activity and weighted-average grant date fair value information for the year ended December 31, 2007 follows:

|                                 | Number of<br>Shares<br>(in thousands) | Weighted-Average<br>Grant Price |
|---------------------------------|---------------------------------------|---------------------------------|
| Non-vested January 1, 2007      | 1,128                                 | \$ 16.00                        |
| Awards granted                  | 2,101                                 | 15.18                           |
| Awards vested                   | (809)                                 | 15.49                           |
| Awards forfeited                | (221)                                 | 15.36                           |
| Non-vested at December 31, 2007 | 2,199                                 | \$ 15.47                        |

As of December 31, 2007 there was \$24.5 million unrecognized stock-based compensation expense related to non-vested restricted stock units. That cost is expected to be recognized over the weighted-average period of 3.01 years

Stock options activity and weighted-average grant date fair value information for the year ended December 31, 2007 follows:

|                                | Number of<br>Shares<br>(in thousands) | Weighted-Average<br>Exercise Price |
|--------------------------------|---------------------------------------|------------------------------------|
| Outstanding at January 1, 2007 | 19,011                                | \$ 20.66                           |
| Options exercised              | (691)                                 | 12.79                              |
| Options forfeited              | (54)                                  | 12.73                              |
| Options cancelled              | (1,124)                               | 24.08                              |
| Options at December 31, 2007   | 17,142                                | \$ 20.78                           |

As of December 31, 2007, there was \$0.4 million unrecognized stock-based compensation related to non-vested stock options. That cost is expected to be recognized over the weighted-average period of 1.64 years.

**Investments in Other Companies**

Teradyne holds minority interests in private companies having operations or technology in areas within its strategic focus. These investments are included in other long-term assets and include investments accounted for at cost and under the equity method of accounting. Under the equity method of accounting, which generally applies to investments that represent a 20 to 50 percent ownership of the equity securities of the investees, Teradyne's proportionate share of the earnings or losses of the investees is included in other income and expense. Teradyne records an impairment charge when it believes an investment has experienced a decline in value that is other-than-temporary. At December 31, 2007 and 2006, these investments have a carrying value of zero.

**Income Taxes**

Deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that will be in effect when



---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**B. ACCOUNTING POLICIES (Continued)**

the differences are expected to reverse. The measurement of deferred tax assets is reduced by a valuation allowance if, based upon weighted available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. U.S. income taxes are not provided for on the earnings of non-U.S. subsidiaries, which are expected to be reinvested indefinitely in operations outside the U.S. For intra-period tax allocations, Teradyne has elected the tax law ordering approach which utilizes net operating loss carryforwards, both income and equity prior to tax credit carryforwards.

**Translation of Non-U.S. Currencies**

The functional currency for all non-U.S. subsidiaries is the U.S. dollar, except for the Systems Test Group business unit Diagnostic Solutions for which the local currency is its functional currency. All foreign currency denominated monetary assets and liabilities are re-measured on a quarterly basis into the functional currency using exchange rates in effect at the end of the period. All foreign currency denominated non-monetary assets and liabilities are re-measured into the functional currency using historical exchange rates. Net foreign exchange gains and losses resulting from re-measurement are included in operations and were immaterial for the years ended December 31, 2007, 2006 and 2005. For Diagnostic Solutions, assets and liabilities are translated into U.S. dollars using exchange rates in effect at the end of the period. Revenue and expense amounts are translated using an average of exchange rates in effect during the period. Translation adjustments are recorded within accumulated other comprehensive loss.

**Net Income (Loss) per Common Share**

Basic net income (loss) per common share is calculated by dividing net income (loss) by the weighted average number of common shares outstanding during the period. Except where the result would be antidilutive to income before continuing operations, diluted net income (loss) per common share is calculated by dividing net income (loss) by the sum of the weighted average number of common shares plus common stock equivalents, if applicable.

**Accounts Receivable and Allowance for Doubtful Accounts**

Trade accounts receivable are recorded at the invoiced amount and do not bear interest. The volatility of the industries that Teradyne serves can cause certain of its customers to experience shortages of cash flows, which can impact their ability to make required payments. Teradyne maintains allowances for doubtful accounts for estimated losses resulting from the inability of its customers to make required payments. Estimated allowances for doubtful accounts are reviewed periodically taking into account the customer's recent payment history, the customer's current financial statements and other information regarding the customer's credit worthiness. Account balances are charged off against the allowance when it is determined the receivable will not be recovered.

**Comprehensive Income (Loss)**

Comprehensive income (loss) includes net income (loss), unrealized pension gains and losses, unrealized gains and losses on certain investments in debt, equity and derivative securities and cumulative translation adjustments.

**C. RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS**

In September 2006, the Financial Accounting Standards Board ( FASB ) issued Statement of Financial Accounting Standards No. 157, Fair Value Measurements ( SFAS No. 157 ). SFAS No. 157 establishes a

---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**C. RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS (Continued)**

framework for measuring fair value and requires expanded disclosures regarding fair value measurements. This accounting standard is effective for financial statements issued for fiscal years beginning after November 15, 2007. Teradyne is currently evaluating the impact of adopting this standard.

In December 2007, the FASB issued SFAS No. 141(R), Business Combinations. This Statement replaces FASB Statement No. 141, Business Combinations. SFAS No. 141(R) establishes new principles and requirements for how an acquiring company 1) recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any non-controlling interest in the acquiree, 2) recognizes and measures the goodwill acquired in the business combination or a gain from a bargain purchase, and 3) determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. SFAS No. 141(R) is effective for business combinations occurring on or after the beginning of the fiscal year beginning on or after December 15, 2008. Teradyne is currently evaluating the impact of adopting this standard.

**D. RISKS AND UNCERTAINTIES**

**Certain Factors That May Affect Future Results**

Teradyne's future results of operations involve a number of risks and uncertainties. These factors include, but are not limited to the following:

Teradyne is subject to intense competition;

Teradyne's business is dependent on the current and anticipated market for electronics, which historically has been highly cyclical;

Teradyne's operating results are likely to fluctuate significantly;

Teradyne is subject to risks of operating internationally;

If Teradyne fails to develop new technologies to adapt to its customers' needs and if its customers fail to accept its new products, its revenues will be adversely affected;

If Teradyne's suppliers do not meet product or delivery requirements, it could have reduced revenues and earnings;

Teradyne's operations may be adversely impacted if its outsourced service providers fail to perform;

Teradyne may incur higher tax rates than it expects;

Teradyne may acquire new businesses or form strategic alliances in the future, and it may not realize the benefits of such acquisitions;

Edgar Filing: TERADYNE, INC - Form 10-K

Teradyne has taken measures to ensure that it is prepared to address slowdowns in the market for its products, which could have long-term negative effects on its business or impact its ability to adequately address a rapid increase in customer demand;

Teradyne may incur significant liabilities if it fails to comply with environmental regulations;

Teradyne currently is and in the future may be subject to litigation that could have an adverse effect on its business;

Teradyne has significant guarantees and indemnification obligations;

If Teradyne is unable to protect its intellectual property, it may lose a valuable asset or may incur costly litigation to protect its rights;

---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**D. RISKS AND UNCERTAINTIES (Continued)**

Teradyne's business may suffer if it is unable to attract and retain key employees;

Teradyne's business is impacted by worldwide economic cycles, which are difficult to predict;

Acts of war, terrorist attacks and the threat of domestic and international terrorist attacks may adversely impact Teradyne's business;  
and

Provisions of Teradyne's charter and by-laws and Massachusetts law make a takeover of Teradyne more difficult.

**E. DISCONTINUED OPERATIONS**

On August 1, 2007 Teradyne completed the sale of the Broadband Test Division to Tollgrade Communications, Inc. for \$11.3 million in cash. Broadband Test Division had revenues for the seven month period ended July 31, 2007 of \$11.2 million, for the year ended December 31, 2006 of \$20.6 million, and for the year ending December 31, 2005 of \$30.1 million. Loss from discontinued operations of the Broadband Test Division for the year ended December 31, 2007 was \$6.3 million, loss for the year ended December 31, 2006 was \$5.5 million, and income for the year ended December 31, 2005 was \$3.2 million. In 2007, Teradyne recorded a gain on the sale of Broadband Test Division of \$5.9 million, net of a tax provision of \$0.4 million.

On October 10, 2005, Teradyne announced they had reached a definitive agreement to sell its Connection Systems segment to Amphenol Corporation for \$390.0 million in cash (subject to a post-closing net asset value adjustment). On November 30, 2005 the sale was completed for an adjusted purchase price of \$384.7 million. Connection Systems had revenues for the eleven month period ended November 30, 2005 of \$331.0 million. Loss from discontinued operations of Connection Systems segment for the year ended December 31, 2006 was \$3.9 million, relating to a change in estimate to tax expenses from the sale. Under applicable accounting guidance, there is an offsetting tax benefit recorded in continuing operations for the same amount. This tax provision results from the finalization of the 2005 U.S. tax return. Income from discontinued operations of Connection Systems through the date of sale in 2005 was \$151.1 million, including a gain on sale of Connection Systems of \$137.0 million, net of a tax provision of \$31.0 million.

**F. ACQUISITIONS OF TECHNOLOGY**

On March 7, 2007, Teradyne purchased in-process enabling test technology and hired certain engineers from MOSAID Technologies Inc. for \$17.6 million, which includes \$0.6 million in fees directly related to the acquisition. Of the purchase price, \$16.7 million has been allocated to in-process research and development and therefore has been immediately charged to the statement of operations. The balance of the purchase price has been allocated to acquired workforce and fixed assets.

This technology was purchased to be used in the development of a new semiconductor test product. As of the acquisition date, the technology had not reached technical feasibility, had no alternative future use and its fair value was estimable with reasonable reliability, and therefore has been classified as in-process research and development. The technology is unique to the semiconductor test market and requires significant development. The estimated fair value of the in-process technology was determined based on the use of a discounted cash flow model using an income approach. Estimated cash flows were probability adjusted to take into account the stage of completion and the risks surrounding successful development and commercialization of the in-process technology. Such a valuation requires significant estimates and assumptions including but not limited to determining the timing and estimated costs to complete the in-process project as well as the estimated cash flows to be generated as a result of completing the project development.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**G. FINANCIAL INSTRUMENTS****Cash Equivalents**

Teradyne considers all highly liquid investments with maturities of three months or less at the date of acquisition to be cash equivalents. Included in cash and cash equivalents are time deposits of \$2.7 million and \$88.7 million for the years ended December 31, 2007 and 2006, respectively.

**Marketable Securities**

Teradyne classifies investments in marketable securities as trading, available-for-sale or held-to-maturity at the time of purchase and periodically re-evaluates such classification. There were no securities classified as trading or held-to-maturity at December 31, 2007 or 2006. Securities are classified as held-to-maturity when Teradyne has the positive intent and ability to hold the securities to maturity. Held-to-maturity securities are stated at cost with corresponding premiums or discounts amortized over the life of the investment to interest income. Securities classified as available-for-sale are reported at fair value. Realized gains and losses and declines in value judged to be other-than-temporary on available-for-sale securities are included in interest income. For the year ended December 31, 2007, Teradyne recorded no realized gains on the sale of its marketable securities. For the years ended December 31, 2006 and 2005, Teradyne recorded realized gains of \$0.1 million and \$0.5 million, respectively, on the sale of its marketable securities. For the years ended December 31, 2007, 2006, and 2005, Teradyne recorded realized losses of \$3.2 million, \$0.3 million, and \$0.8 million, respectively, on the sale of its marketable securities. Unrealized gains and losses are included in accumulated other comprehensive income (loss). The cost of securities sold is based on the specific identification method.

Short-term marketable securities mature in less than one year. Long-term marketable securities have maturities of one to five years. At December 31, 2007 and 2006 these investments are reported as follows:

|  | Available-for-Sale |                 |                   | Fair Market       |   |
|--|--------------------|-----------------|-------------------|-------------------|---|
|  | Cost               | Unrealized Gain | Unrealized (Loss) | Fair Market Value | Value of Investments with Unrealized Losses |
|  | (in thousands)     |                 |                   |                   |   |
| <b>2007</b>                                    |                    |                 |                   |                   |   |
| Short-term marketable securities:              |                    |                 |                   |                   |   |
| U.S. Treasury and government agency securities | \$ 3,793           | \$              | \$ (2)            | \$ 3,791          | \$ 3,791                                    |
| Corporate debt securities                      | 71,841             | 6               | (45)              | 71,802            | 31,989                                      |
|  | \$ 75,634          | \$ 6            | \$ (47)           | \$ 75,593         | \$ 35,780                                   |
| Long-term marketable securities:               |                    |                 |                   |                   |   |
| Corporate debt securities                      | \$ 105,656         | \$ 511          | \$ (1,189)        | \$ 104,978        | \$ 75,343                                   |

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## G. FINANCIAL INSTRUMENTS (Continued)

|  | Available-for-Sale |                 |                                     | Fair Market Value | Fair Market Value of Investments with Unrealized Losses |
|--|--------------------|-----------------|-------------------------------------|-------------------|---|
|  | Cost               | Unrealized Gain | Unrealized (Loss)<br>(in thousands) |                   |   |
| <b>2006</b>                                    |                    |                 |                                     |                   |   |
| Short-term marketable securities:              |                    |                 |                                     |                   |   |
| U.S. Treasury and government agency securities | \$ 14,684          | \$              | \$ (115)                            | \$ 14,569         | \$ 14,569   |
| Corporate debt securities                      | 33,437             |                 | (240)                               | 33,197            | 25,159  |
|  | \$ 48,121          | \$              | \$ (355)                            | \$ 47,766         | \$ 39,728   |
| Long-term marketable securities:               |                    |                 |                                     |                   |   |
| U.S. Treasury and government agency securities | \$ 57,442          | \$              | \$ (1,653)                          | \$ 55,789         | \$ 55,789   |
| Corporate debt securities                      | 275,546            | 91              | (2,599)                             | 273,038           | 164,600   |
|  | \$ 332,988         | \$ 91           | \$ (4,252)                          | \$ 328,827        | \$ 220,389  |

As of December 31, 2007, the fair market value of investments with unrealized losses totalled \$111.1 million. Of this value, \$33.6 million consists of 16 individual securities that have had an unrealized loss for greater than one year and \$77.5 million have had an unrealized loss for less than one year. Of the \$33.6 million of investments that have had an unrealized loss for greater than one year, \$3.8 million relates to short-term investments in U.S. Treasury and government agency securities, \$11.1 million relates to short-term corporate debt securities, and \$18.7 million relates to long-term corporate debt securities. Teradyne reviews its investments to identify and evaluate investments that have an indication of possible impairment. Factors considered in determining whether a loss is temporary include the length of time and extent to which fair value has been less than the cost basis, the financial condition and near term prospects of the investee, and the Company's intent and ability to hold the investments for a period of time to allow for anticipated recovery in market value. Based on this review, the Company has determined that the unrealized losses at December 31, 2007 are temporary.

**Derivatives**

Teradyne conducts business in a number of foreign countries, with certain transactions denominated in local currencies. The purpose of Teradyne's foreign currency management is to minimize the effect of exchange rate fluctuations on certain foreign denominated net monetary assets and anticipated cash flows. The terms of currency instruments used for hedging purposes are consistent with the timing of the transactions being hedged. Teradyne does not use derivative financial instruments for trading or speculative purposes.

To minimize the effect of exchange rate fluctuations associated with the remeasurement of net monetary assets denominated in foreign currencies, Teradyne enters into foreign currency forward contracts. The change in fair value of these derivatives is recorded directly in earnings, and is used to offset the change in fair value of the net monetary assets denominated in foreign currencies.

To minimize the effect of exchange rate fluctuations associated with the future cash flows of revenue contracts denominated in a foreign currency, Teradyne enters into foreign currency forward contracts. These foreign currency forward contracts are designated as cash flow hedges and are carried on Teradyne's balance sheet at fair value with the effective portion of the contracts' gains or losses included in accumulated other comprehensive income (loss) and subsequently recognized in earnings in the same period the hedged transaction occurs. These forward contracts generally expire within 24 months.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## G. FINANCIAL INSTRUMENTS (Continued)

At December 31, 2007 and 2006, Teradyne had the following forward currency contracts to buy and sell non-U.S. currencies for U.S. dollars with the following notional amounts:

|                        | December 31, 2007 |                  |                               | December 31, 2006 |                  |               |
|------------------------|-------------------|------------------|-------------------------------|-------------------|------------------|---------------|
|                        | Buy<br>Position   | Sell<br>Position | Net<br>Total<br>(in millions) | Buy<br>Position   | Sell<br>Position | Net<br>Total  |
| Japanese Yen           | \$                | \$ 26.5          | \$ 26.5                       | \$ (6.5)          | \$ 27.8          | \$ 21.3       |
| Taiwan Dollar          |                   | 6.6              | 6.6                           |                   | 5.6              | 5.6           |
| British Pound Sterling | (12.2)            | 7.2              | (5.0)                         | (29.6)            | 14.0             | (15.6)        |
| European Euro          | (15.4)            | 20.9             | 5.5                           | (18.3)            | 14.8             | (3.5)         |
| <b>Total</b>           | <b>\$ (27.6)</b>  | <b>\$ 61.2</b>   | <b>\$ 33.6</b>                | <b>\$ (54.4)</b>  | <b>\$ 62.2</b>   | <b>\$ 7.8</b> |

The fair value of the outstanding contracts was an immaterial gain at December 31, 2007 and a gain of \$0.7 million at December 31, 2006. In 2007, Teradyne recorded net realized losses of \$0.2 million related to foreign currency forward contracts hedging net monetary positions. In 2006, Teradyne recorded net realized gains of \$2.2 million related to foreign currency forward contracts hedging net monetary positions. In 2005, Teradyne recorded net realized losses of \$0.5 million related to foreign currency forward contracts hedging net monetary positions. Both, the contract gains and losses on the items being hedged are included in selling and administrative expenses.

The effective portion of derivative gains and losses related to cash flow hedges are included in accumulated other comprehensive loss and are reclassified into earnings when the forecasted transaction occurs. During fiscal 2007, Teradyne did not enter into any cash flow hedges. During fiscal 2006, \$0.1 million of losses were reclassified to revenue. No cash flow hedges were derecognized or discontinued during fiscal 2007 and 2006. During 2006 and 2005, there were no gains or losses from cash flow hedges due to ineffectiveness.

**Concentration of Credit Risk**

Financial instruments which potentially subject Teradyne to concentrations of credit risk consist principally of marketable securities, forward currency contracts and accounts receivable. Teradyne maintains cash investments primarily in U.S. Treasury and government agency securities and corporate debt securities, rated AA or higher, which have minimal credit risk. Teradyne places forward currency contracts with high credit-quality financial institutions in order to minimize credit risk exposure. Concentrations of credit risk with respect to accounts receivable are limited due to the large number of geographically dispersed customers. Teradyne performs ongoing credit evaluations of its customers' financial condition and from time to time may require customers to provide a letter of credit from a bank to secure accounts receivable.

**H. DEBT****Convertible Senior Notes**

In 2001, Teradyne issued \$400 million principal amount of 3.75% Convertible Senior Notes due 2006 (the Notes) in a private placement and received net proceeds of \$389 million. The Notes were convertible at the option of the holders at a rate which is equivalent to a conversion price of approximately \$26.00 per share, which is equal to a conversion rate of approximately 38.4615 shares of common stock per \$1,000 principal amount of Notes.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**H. DEBT (Continued)**

Teradyne began making annual interest payments of up to \$15 million, paid semi-annually, on the Notes on April 15, 2002. The Notes were senior unsecured obligations of Teradyne that ranked equally with Teradyne's existing and future unsecured and unsubordinated indebtedness. The price Teradyne was required to pay was 100% of the principal amount of the Notes to be repurchased, together with interest accrued but unpaid to, but excluding, the repurchase date. At Teradyne's option and subject to the satisfaction of certain conditions, instead of paying the repurchase price in cash, it may pay the repurchase price in common stock valued at 95% of the average of the closing prices of common stock for the five trading days immediately preceding and including the third trading day prior to the repurchase date. During 2004 and the first quarter of 2005, Teradyne repurchased \$8.5 million and \$20.0 million, respectively, of the outstanding principal amount of the Notes pursuant to the August 18, 2004 Board of Directors authorization given to management to repurchase up to \$100 million of the outstanding Notes in open market purchases at negotiated prices below 101.50% of the principal amount. During the fourth quarter of 2005, Teradyne repurchased \$71.5 million of the Notes through several privately negotiated transactions, at a weighted average price of 99.11% of the principal amount of the Notes. These repurchases were made pursuant to the Board of Directors' authorization given to management on August 18, 2004 and as amended on October 21, 2005, and represent the remaining amount authorized for repurchase. Teradyne incurred no gain or loss during the year ended December 31, 2006 and 2005 as a result of these transactions. This debt was paid in its entirety during 2006.

**I. ACCUMULATED OTHER COMPREHENSIVE LOSS**

At December 31, 2007 and 2006, the accumulated other comprehensive loss balances were as follows:

|   | 2007           | 2006        |
|---|----------------|-------------|
|   | (in thousands) |             |
| Retirement plans net loss, net of tax of (\$1,682) and (\$2,858)  | \$ (41,965)    | \$ (62,516) |
| Retirement plans prior service cost, net of tax of \$0 and \$0    | (5,507)        | (2,561)     |
| Retirement plans net transition asset, net of tax of \$8 and \$32 | 20             | 57          |
| Unrealized loss on investments, net of tax of \$0 and \$0         | (721)          | (4,175)     |
| Foreign currency translation adjustments                          | 2,145          | 2,886       |
| Total accumulated other comprehensive loss                        | \$ (46,028)    | \$ (66,309) |

**J. GOODWILL AND INTANGIBLE ASSETS****Goodwill**

Teradyne has identified goodwill in its Systems Test Group reportable segment with a carrying amount of \$69.1 million at December 31, 2007 and 2006. SFAS 142 provides that goodwill of a reporting unit be tested for impairment on an annual basis and between annual tests in certain circumstances including a significant adverse change in the business outlook. Teradyne's annual impairment test is performed in the fourth quarter of each fiscal year. Teradyne tested the Systems Test Group reporting unit for impairment during its annual test and concluded that there was no impairment of goodwill as of December 31, 2007, 2006 and 2005.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## J. GOODWILL AND INTANGIBLE ASSETS (Continued)

## Intangible Assets

Amortizable intangible assets consist of the following and are included in intangible and other assets on the balance sheets:

|   | Gross<br>Carrying<br>Amount | December 31, 2007                             |                           | Weighted<br>Average<br>Useful Life |
|---|-----------------------------|---|---------------------------|------------------------------------|
|   |                             | Accumulated<br>Amortization<br>(in thousands) | Net<br>Carrying<br>Amount |                                    |
| Completed technology  | \$ 19,193                   | \$ 15,734                                     | \$ 3,459                  | 7.5 years                          |
| Service and software maintenance contracts and customer relationships | 4,779                       | 3,678   | 1,101                     | 8.0 years                          |
| Tradenames and trademarks   | 3,800                       | 2,929   | 871                       | 8.0 years                          |
| Acquired workforce  | 700                         | 139   | 561                       | 4.0 years                          |
| Total intangible assets   | \$ 28,472                   | \$ 22,480                                     | \$ 5,992                  | 7.6 years                          |

|   | Gross<br>Carrying<br>Amount | December 31, 2006                             |                           | Weighted<br>Average<br>Useful Life |
|---|-----------------------------|---|---------------------------|------------------------------------|
|   |                             | Accumulated<br>Amortization<br>(in thousands) | Net<br>Carrying<br>Amount |                                    |
| Completed technology  | \$ 19,193                   | \$ 13,281                                     | \$ 5,912                  | 7.5 years                          |
| Service and software maintenance contracts and customer relationships | 4,779                       | 3,078   | 1,701                     | 8.0 years                          |
| Tradenames and trademarks   | 3,800                       | 2,454   | 1,346                     | 8.0 years                          |
| Total intangible assets   | \$ 27,772                   | \$ 18,813                                     | \$ 8,959                  | 7.7 years                          |

Aggregate amortization expense was \$3.7 million in the year ended December 31, 2007, and \$3.6 million in the years ended December 31, 2006 and 2005. Estimated amortization expense for each of the five succeeding fiscal years is as follows:

| Year | Amount<br>(in thousands) |
|------|--------------------------|
| 2008 | 3,137                    |
| 2009 | 2,643                    |
| 2010 | 175                      |
| 2011 | 37                       |
| 2012 |                          |

## K. COMMITMENTS AND CONTINGENCIES

## Lease Commitments

Rental expense for the years ended December 31, 2007, 2006 and 2005 was \$19.8 million, \$22.4 million and \$22.7 million, respectively.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## K. COMMITMENTS AND CONTINGENCIES (Continued)

Teradyne leases portions of its office and operating facilities under various operating lease arrangements. The following table reflects Teradyne's non-cancelable operating lease commitments:

|              | Non-cancelable<br>Lease<br>Commitments*<br>(in thousands) |
|--------------|---|
| 2008         | 13,972  |
| 2009         | 12,556  |
| 2010         | 11,327  |
| 2011         | 9,396   |
| 2012         | 5,089   |
| Beyond 2012  | 618   |
| <b>Total</b> | <b>\$ 52,958</b>  |

\* Minimum payments have not been reduced by minimum sublease income of \$10.5 million due in the future under non-cancelable subleases.

**Legal Claims**

On September 5, 2001, after Teradyne's August 2000 acquisition of Herco Technology Corp. and Perception Laminates, Inc., the former owners of those companies filed a complaint against Teradyne and two of our then executive officers in the Federal District Court in San Diego, California, asserting securities fraud and breach of contract related to the acquisition. The District Court dismissed certain of the plaintiffs' claims, granted partial summary judgment against them with respect to their breach of contract claim and denied their motion for reconsideration. In July 2007, after an appeal by the plaintiffs, the U.S. Court of Appeals for the Ninth Circuit affirmed in part and reversed in part the District Court rulings. Teradyne petitioned the Ninth Circuit for rehearing of the ruling that it reversed. In October 2007, the Ninth Circuit denied Teradyne's petition for rehearing. Teradyne will continue to defend the claim that was sent back to the District Court.

In 2001, Teradyne was designated as a Potentially Responsible Party (PRP) at a clean-up site in Los Angeles, California. This claim arose out of Teradyne's acquisition of Perception Laminates in August 2000. Prior to that date, Perception Laminates had itself acquired certain assets of Alco Industries Inc. under an asset purchase agreement in 1992. Neither Teradyne nor Perception Laminates have ever conducted any operations at the Los Angeles site. Teradyne asked the State of California to drop the PRP designation, but California has not yet agreed to do so.

Teradyne believes that it has meritorious defenses against the above unsettled claims and intends to vigorously contest them. While it is not possible to predict or determine the outcomes of the unsettled claims or to provide possible ranges of losses that may arise, Teradyne believes the potential losses associated with all of these actions will not have a material adverse effect on its consolidated financial position or liquidity, but could possibly be material to its consolidated results of operations of any one period.

In addition, Teradyne is subject to legal proceedings, claims and investigations that arise in the ordinary course of business such as, but not limited to, patent, employment, commercial and environmental matters. Although there can be no assurance, there are no such matters pending that Teradyne expects to be material with respect to its business, financial position or results of operations.

---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**K. COMMITMENTS AND CONTINGENCIES (Continued)**

**Guarantees and Indemnification Obligations**

Teradyne provides indemnification, to the extent permitted by law, to its officers, directors, employees and agents for liabilities arising from certain events or occurrences while the officer, director, employee, or agent, is or was serving, at Teradyne's request in such capacity. Teradyne has entered into indemnification agreements with certain of its officers and directors. With respect to acquisitions, Teradyne provides indemnifications to or assumes indemnification obligations for the current and former directors, officers and employees of the acquired companies in accordance with the acquired companies' bylaws and charter. As a matter of practice, Teradyne has maintained directors and officer liability insurance coverage including coverage for directors and officers of acquired companies. Two former executive officers of Teradyne are named defendants in a securities case pending in the Federal District Court in San Diego. Each of these former executive officers has invoked the indemnification provisions described herein and insurance claims have been submitted to and are being processed by Teradyne's director and officer liability insurance provider.

Teradyne enters into agreements in the ordinary course of business with customers, resellers, distributors, integrators and suppliers. Most of these agreements require Teradyne to defend and/or indemnify the other party against intellectual property infringement claims brought by a third party with respect to Teradyne's products. From time to time, Teradyne also indemnifies customers and business partners for damages, losses and liabilities they may suffer or incur relating to personal injury, personal property damage, product liability and environmental claims relating to the use of Teradyne's products and services or resulting from the acts or omissions of Teradyne, its employees, authorized agents or subcontractors. On occasion, Teradyne has also provided guarantees to customers regarding the performance of its products in addition to the warranty described below.

As a matter of ordinary business course, Teradyne warrants that its products, including software products, will substantially perform in accordance with its standard published specifications in effect at the time of delivery. Most warranties have a one year duration commencing from installation. A provision is recorded upon revenue recognition to cost of revenue for estimated warranty expense upon historical experience. When Teradyne receives revenue for extended warranties beyond the standard duration, it is deferred and recognized on a straight line basis over the contract period. Related costs are expensed as incurred. As of December 31, 2007 and 2006, Teradyne had a product warranty accrual of \$9.3 million and \$12.9 million, respectively in other accrued liabilities and revenue deferrals related to extended warranties of \$6.6 million and \$8.4 million, respectively in deferred revenue.

In addition, and in the ordinary course of business, Teradyne provides minimum purchase guarantees to certain of its vendors to ensure continuity of supply against the market demand. Although some of these guarantees provide penalties for cancellations and/or modifications to the purchase commitments as the market demand decreases, most of the guarantees do not. Therefore, as the market demand decreases, Teradyne re-evaluates these guarantees and determines what charges, if any, should be recorded.

With respect to its agreements covering product, business or entity divestitures and acquisitions, Teradyne provides certain representations, warranties and covenants to purchasers and agrees to indemnify and hold such purchasers harmless against breaches of such representations, warranties and covenants. Many of the indemnification claims have a definite expiration date while some remain in force indefinitely. With respect to its acquisitions, Teradyne may, from time to time, assume the liability for certain events or occurrences that took place prior to the date of acquisition.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## K. COMMITMENTS AND CONTINGENCIES (Continued)

As a matter of ordinary business course, Teradyne occasionally guarantees certain indebtedness obligations of its subsidiary companies, limited to the borrowings from financial institutions, purchase commitments to certain vendors, and lease commitments to landlords.

Based on historical experience and information known as of December 31, 2007, except for product warranty, Teradyne has not recorded any liabilities for these guarantees and obligations as of December 31, 2007 because the amount would be immaterial.

## L. NET INCOME (LOSS) PER COMMON SHARE

The following table sets forth the computation of basic and diluted net income (loss) per common share from continuing and discontinued operations:

|  | 2007                                     | 2006       | 2005        |
|--|--|------------|-------------|
|  | (in thousands, except per share amounts) |            |             |
| Income (loss) from continuing operations   | \$ 71,883                                | \$ 208,162 | \$ (63,656) |
| Income (loss) from discontinued operations, net                                  | 5,828                                    | (9,405)    | 154,304     |
| Net income for basic net income per share  | 77,711                                   | 198,757    | 90,648      |
| Income impact of assumed conversion of convertible debentures                    |  | 8,346      |             |
| Net income for diluted net income per share                                      | \$ 77,711                                | \$ 207,103 | \$ 90,648   |
| Shares used income (loss) from continuing operations per common share basic      | 184,020                                  | 194,729    | 196,283     |
| Incremental shares from assumed conversion of convertible debentures             |  | 8,546      |             |
| Employee and director stock options  | 755                                      | 699        |             |
| Restricted stock units   | 520                                      | 382        |             |
| Employee stock purchase rights   | 79                                       | 58         |             |
| Dilutive potential common shares   | 1,354                                    | 9,685      |             |
| Shares used in income (loss) from continuing operations per common share diluted | 185,374                                  | 204,414    | 196,283     |
| Net income (loss) per common share basic   |  |            |             |
| Continuing operations  | \$ 0.39                                  | \$ 1.07    | \$ (0.32)   |
| Discontinued operations  | 0.03                                     | (0.05)     | 0.78        |
|  | \$ 0.42                                  | \$ 1.02    | \$ 0.46     |
| Net income (loss) per common share diluted                                       |  |            |             |
| Continuing operations  | \$ 0.39                                  | \$ 1.06    | \$ (0.32)   |
| Discontinued operations  | 0.03                                     | (0.05)     | 0.78        |
|  | \$ 0.42                                  | \$ 1.01    | \$ 0.46     |

The computation of diluted net income per common share for the year ended December 31, 2007 and 2006 excludes the effect of the potential exercise of options to purchase approximately 13.8 million and 15.3 million shares, respectively, because the exercise price of the option was greater than the average market price of the common shares, as the effect would have been ant-dilutive. The effect of Teradyne's outstanding convertible notes on diluted net income per share for the year ended December 31, 2006 was calculated using the if



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## L. NET INCOME (LOSS) PER COMMON SHARE (Continued)

converted method as required by SFAS No. 128, Earnings per Share. In using the if converted method, \$8.3 million of interest expense related to the convertible notes for the year ended December 31, 2006, net of tax and profit sharing expenses, was added back to net income to arrive at diluted net income. Accordingly, 8.5 million incremental shares from the assumed conversion of the convertible debt are added to shares when calculating diluted net income per common share for the year ended December 31, 2006.

The computation of diluted net loss per common share for the year ended December 31, 2005 excludes the effect of the potential exercise of all options because the effect would have been anti-dilutive. Diluted (loss) income per common share for the year ended December 31, 2005 also excludes 11.5 million shares related to Teradyne's convertible notes outstanding because the effect would have been anti-dilutive.

## M. RESTRUCTURING AND OTHER, NET

In response to a downturn in the industry, Teradyne initiated restructuring activities in 2002 across all segments to reduce costs and redundancies, principally through headcount reductions and facility consolidations. Further actions were initiated in 2003, to a lesser extent in 2004, 2005, 2006, and 2007. Additionally, in 2005, 2006 and 2007 as part of Teradyne's facility consolidation, Teradyne began selling certain real estate. The tables below represent activity related to these actions. The remaining accrual for severance and benefits is reflected in the accrued employees' compensation and withholdings account on the balance sheet. The remaining accrual for lease payments on vacated facilities is reflected in the other accrued liabilities account and the other long-term accrued liabilities account and is expected to be paid out over the lease terms, the latest of which expires in 2012. Teradyne expects to pay out approximately \$2.2 million against the lease accruals over the next twelve months, with the remaining balance to be paid through 2012. Our future lease commitments are net of expected sublease income of \$7.8 million as of December 31, 2007.

## 2007 Activities

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits | Facility<br>Related<br>(in thousands) | Insurance<br>Recovery | Total    |
|------------------------------|--|------------------------------|---------------------------------------|-----------------------|----------|
| 2007 (credit) provision      | \$ (3,597)                               | \$ 6,963                     | \$                                    | \$ (4,326)            | \$ (960) |
| Cash receipts (payments)     | 3,597                                    | (5,855)                      |                                       | 4,326                 | 2,068    |
| Balance at December 31, 2007 | \$                                       | \$ 1,108                     | \$                                    | \$                    | \$ 1,108 |

Teradyne recorded the following activity related to the 2007 restructuring activities:

\$3.6 million gain on the sale of land and building in Deerfield Illinois;

\$7.0 million of severance charges related to headcount of 202 people across all functions and segments; and

\$4.3 million of cash proceeds recovered from insurance related to facility fire in Taiwan.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## M. RESTRUCTURING AND OTHER, NET (Continued)

## 2006 Activities

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits | Facility<br>Related<br>(in thousands) | Long-Lived<br>Asset<br>Impairment | Total       |
|------------------------------|--|------------------------------|---------------------------------------|-----------------------------------|-------------|
| 2006 (credit) provision      | \$ (39,098)                              | \$ 4,292                     | \$ 1,153                              | \$ 50                             | \$ (33,603) |
| Cash receipts (payments)     | 39,098                                   | (2,659)                      | (528)                                 |                                   | 35,911      |
| Asset write-downs            |  |                              |                                       | (50)                              | (50)        |
| Balance at December 31, 2006 |  | 1,633                        | 625                                   |                                   | 2,258       |
| 2007 (credit) provision      |  | (152)                        |                                       |                                   | (152)       |
| Cash receipts (payments)     |  | (1,473)                      | (590)                                 |                                   | (2,063)     |
| Balance at December 31, 2007 | \$                                       | \$ 8                         | \$ 35                                 | \$                                | \$ 43       |

Teradyne recorded the following activity related to the 2006 restructuring activities:

\$39.1 million gain on the sale of real estate, including \$35.8 million for two Semiconductor Test facilities in Boston, MA, \$1.5 million for a Semiconductor Test parking facility in Boston, MA, \$1.3 million for a Semiconductor Test facility in San Jose, CA and \$0.5 million for buildings in Nashua, NH;

\$4.3 million of severance charges related to 179 people across all segments; and

\$1.2 million of facility related charges for the exit of Semiconductor Test facilities in Newbury Park, CA and Waltham, MA.

## 2005 Activities

|                              | Gain on Sale<br>of Land<br>and Buildings | Severance<br>and<br>Benefits | Long-Lived<br>Asset<br>Impairment<br>(in thousands) | Facility<br>Related | Other<br>Charges | Total     |
|------------------------------|--|------------------------------|---|---------------------|------------------|-----------|
| 2005 provision (credit)      | \$ (15,329)                              | \$ 21,254                    | \$ 8,331  | \$ 2,276            | \$ 4,247         | \$ 20,779 |
| Cash (payments) receipts     | 15,329                                   | (11,439)                     |   | (546)               | (3,718)          | (374)     |
| Asset write-downs            |  |                              | (8,331)   |                     |                  | (8,331)   |
| Balance at December 31, 2005 |  | 9,815                        |   | 1,730               | 529              | 12,074    |
| 2006 (credit) provision      |  | (50)                         |   | 555                 |                  | 505       |
| Cash payments                |  | (8,766)                      |   | (406)               | (529)            | (9,701)   |
| Balance at December 31, 2006 |  | 999                          |   | 1,879               |                  | 2,878     |

Edgar Filing: TERADYNE, INC - Form 10-K

|                              |    |        |    |          |    |          |
|------------------------------|----|--------|----|----------|----|----------|
| 2007 (credit) provision      |    | (108)  |    | 53       |    | (55)     |
| Cash payments                |    | (649)  |    | (443)    |    | (1,092)  |
| Balance at December 31, 2007 | \$ | \$ 242 | \$ | \$ 1,489 | \$ | \$ 1,731 |

Teradyne recorded the following activity related to the 2005 restructuring activities:

\$15.3 million in gains, including \$13.2 million in Semiconductor Test for the sale of land in Japan and a building in Agoura Hills, CA, and \$2.1 million at Corporate for the sale of a building in North Reading, MA;

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## M. RESTRUCTURING AND OTHER, NET (Continued)

\$21.3 million for severance and related benefits for 526 people terminated across all segments;

\$8.3 million charge, for certain long-lived assets held for sale, as the estimated fair value was less than the carrying value of the assets primarily related to a building held for sale in North Reading, MA, at Corporate which was subsequently sold;

\$2.3 million charge in 2005 and an additional \$0.6 million in 2006 related to the exit of a Systems Test Group facility in Poway, CA; and

\$4.2 million charge consisting of \$3.1 million of divestiture-related fees at Corporate and \$1.1 million for a lease obligation for unused software licenses in Semiconductor Test.

*Pre-2005 Activities*

|                              | Severance<br>and<br>Benefits | Loss on Sale<br>of Product<br>Lines<br>(in thousands) | Facility<br>Related | Total     |
|------------------------------|------------------------------|---|---------------------|-----------|
| Balance at December 31, 2004 | \$ 2,079                     | \$  | \$ 20,651           | \$ 22,730 |
| 2005 (credit) provision      |                              | (4,068)   | 933                 | (3,135)   |
| Cash (payments) receipts     | (1,778)                      | 4,068   | (6,253)             | (3,963)   |
| Balance at December 31, 2005 | 301                          |   | 15,331              | 15,632    |
| 2006 credit                  |                              | (406)   | (2,529)             | (2,935)   |
| Cash (payments) receipts     | (117)                        | 406   | (5,077)             | (4,788)   |
| Balance at December 31, 2006 | 184                          |   | 7,725               | 7,909     |
| 2007 (credit) provision      | (184)                        | (906)   | 1,598               | 508       |
| Cash (payments) receipts     |                              | 906   | (3,045)             | (2,139)   |
| Balance at December 31, 2007 | \$                           | \$  | \$ 6,278            | \$ 6,278  |

For Pre-2005 restructuring activity, Teradyne recorded the following activity in 2007:

\$0.9 million from earn-out payments received from the product line divestitures in the Systems Test Group.

\$1.6 million related to changes in estimated sublease income and related facility costs from facilities previously exited by the Systems Test Group.

During February 2008, the Company implemented reduction-in-force activities across all reportable segments, functions and geographies. This will include a reduction of approximately 175 employees and a severance charge during the first quarter of 2008 of approximately \$9.5 million.

**N. RETIREMENT PLANS**

Teradyne adopted the funded status recognition provision of SFAS 158 effective December 31, 2006. This standard amends SFAS 87, 88, 106, and 132(R). SFAS 158 requires an employer with defined benefit plans or other postretirement benefit plans to recognize an asset or a liability on its balance sheet for the overfunded or underfunded status of the plans as defined by SFAS 158. The pension asset or liability represents a difference between the fair value of the pension plan's assets and the projected benefit obligation as of December 31. For other postretirement benefit plans, the liability is the difference between the fair value of the plan's assets and the accumulated postretirement benefit obligation as of December 31.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

## Defined Benefit Pension Plans

Teradyne has defined benefit pension plans covering a majority of domestic employees and employees of certain non-U.S. subsidiaries. Benefits under these plans are based on employees' years of service and compensation. Teradyne's funding policy is to make contributions to the plans in accordance with local laws and to the extent that such contributions are tax deductible. The assets of these plans consist primarily of equity and fixed income securities. In addition, Teradyne has an unfunded supplemental executive defined benefit plan in the United States to provide retirement benefits in excess of levels allowed by the Employment Retirement Income Security Act (ERISA) and the Internal Revenue Code (the IRC), as well as unfunded foreign plans.

Teradyne uses a December 31 measurement date for all of its plans. The December 31 balances of these defined benefit pension plan assets and obligations are shown below:

|                                      | 2007           | 2006        |
|--------------------------------------|----------------|-------------|
|                                      | (in thousands) |             |
| <b>Assets and Obligations</b>        |                |             |
| <b>Change in benefit obligation:</b> |                |             |
| Projected benefit obligation:        |                |             |
| Beginning of year                    | \$ 297,857     | \$ 304,069  |
| Service cost                         | 5,664          | 7,042       |
| Interest cost                        | 16,647         | 15,723      |
| Actuarial gain                       | (16,936)       | (24,159)    |
| Benefits paid                        | (13,467)       | (9,113)     |
| Curtailement                         | (498)          |             |
| Transfers                            | (810)          |             |
| Non-U.S. currency movement           | 2,930          | 4,295       |
| End of year                          | 291,387        | 297,857     |
| <b>Change in plan assets:</b>        |                |             |
| Fair value of plan assets:           |                |             |
| Beginning of year                    | 276,945        | 225,097     |
| Company contributions                | 4,808          | 30,232      |
| Plan participants' contributions     | 54             | 63          |
| Actual return                        | 15,208         | 29,240      |
| Benefits paid                        | (13,467)       | (9,113)     |
| Special termination benefits         |                |             |
| Other                                |                |             |
| Non-U.S. currency movement           | 653            | 1,426       |
| End of year                          | 284,201        | 276,945     |
| Funded status                        | \$ (7,186)     | \$ (20,912) |

The following table provides amounts recorded within the account line items of the statement of financial position as of December 31:

|  | 2007 | 2006 |
|--|------|------|
|--|------|------|



Edgar Filing: TERADYNE, INC - Form 10-K

|  | (in thousands) |             |
|--|----------------|-------------|
| Long-term retirement plans assets                | \$ 46,396      | \$ 31,503   |
| Accrued employees' compensation and withholdings | (1,956)        | (1,459)     |
| Long-term retirement plans liabilities           | (51,626)       | (50,956)    |
|  | \$ (7,186)     | \$ (20,912) |

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

The following table provides amounts recognized in accumulated other comprehensive loss as of December 31:

|  | 2007           | 2006      |
|--|----------------|-----------|
|  | (in thousands) |           |
| Net loss   | \$ 39,365      | \$ 59,433 |
| Prior service cost                                       | 7,736          | 5,024     |
| Net transition asset                                     | (27)           | (89)      |
| <br>   |                |           |
| Total recognized in other comprehensive loss before tax  | 47,074         | 64,368    |
| Deferred tax asset                                       | (1,674)        | (2,827)   |
| <br>   |                |           |
| Total recognized in other comprehensive loss, net of tax | \$ 45,400      | \$ 61,541 |

The estimated portion of net loss and prior service cost remaining in accumulated other comprehensive loss that is expected to be recognized as a component of net periodic pension cost in 2008 is \$1.5 million, and \$0.8 million respectively.

The accumulated benefit obligation for all defined pension plans was \$271.1 million and \$272.6 million at December 31, 2007 and 2006, respectively.

Information for pension plans with an accumulated benefit obligation in excess of plan assets:

|                                | 2007          | 2006    |
|--------------------------------|---------------|---------|
|                                | (in millions) |         |
| Projected benefit obligation   | \$ 53.6       | \$ 51.8 |
| Accumulated benefit obligation | \$ 43.7       | \$ 40.3 |
| Fair value of plan assets      | \$ 0.9        | \$ 0.7  |

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

*Expense*

For the years ended December 31, 2007, 2006 and 2005, Teradyne's net periodic pension costs were comprised of:

|   | 2007     | 2006<br>(in thousands) | 2005      |
|---|----------|------------------------|-----------|
| <b>Components of Net Periodic Pension Cost:</b> |          |                        |           |
| Service cost                                    | \$ 5,664 | \$ 7,042               | \$ 7,196  |
| Interest cost                                   | 16,647   | 15,723                 | 14,937    |
| Expected return on plan assets                  | (19,545) | (17,694)               | (14,789)  |
| Amortization of:                                |          |                        |           |
| Net transition (asset)/obligation               | (68)     | 66                     | 130       |
| Prior service cost                              | 847      | 844                    | 1,061     |
| Net loss  | 3,614    | 5,900                  | 4,989     |
| Curtailment cost                                |          |                        | 2,154     |
| Total net periodic pension cost                 | 7,159    | \$ 11,881              | \$ 15,678 |

**Other Changes in Plan Assets and Benefit Obligations Recognized in Other Comprehensive Income:**

|  |          |
|--|----------|
| Net gain                                       | (12,895) |
| Reversal of amortization items:                |          |
| Net transition asset                           | 68       |
| Prior service cost                             | (847)    |
| Net loss                                       | (3,614)  |
| Total recognized in other comprehensive income | (17,288) |

Total recognized in net periodic pension cost and other comprehensive income \$ (10,129)

*Weighted Average Assumptions to Determine Net Periodic Pension Cost at January 1*

|                                | United States Plan |      |       | Foreign Plans |      |      |
|--------------------------------|--------------------|------|-------|---------------|------|------|
|                                | 2007               | 2006 | 2005  | 2007          | 2006 | 2005 |
| Discount rate                  | 6.0%               | 5.5% | 5.75% | 4.1%          | 4.1% | 4.4% |
| Expected return on plan assets | 7.75               | 7.5  | 7.5   | 4.0           | 4.0  | 4.4  |
| Salary progression rate        | 4.0                | 4.0  | 4.0   | 3.5           | 3.5  | 3.3  |

*Weighted Average Assumptions to Determine Pension Obligations at December 31*

|                         | United States Plan |      |      | Foreign Plans |      |      |
|-------------------------|--------------------|------|------|---------------|------|------|
|                         | 2007               | 2006 | 2005 | 2007          | 2006 | 2005 |
| Discount rate           | 6.5%               | 6.0% | 5.5% | 4.8%          | 4.0% | 4.1% |
| Salary progression rate | 4.0                | 4.0  | 4.0  | 3.6           | 3.5  | 3.4  |

## Edgar Filing: TERADYNE, INC - Form 10-K

In developing the expected return on plan assets assumption, Teradyne evaluated input from its investment manager and pension consultants, including their review of asset class return expectations. Based on this review, Teradyne believes that 7.75% was an appropriate rate to use for fiscal 2007 for the U.S. Qualified Pension Plan.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

Teradyne bases its determination of pension expense or income on a market-related valuation of assets, which reduces year-to-year volatility. This market-related valuation recognizes investment gains or losses over a five-year period from the year in which they occur. Investment gains or losses for this purpose are the difference between the expected return calculated using the market-related value of assets and the actual return on assets. Since the market-related value of assets recognizes gains or losses over a five-year period, the future value of assets will be impacted as previously deferred gains or losses are recognized. As of December 31, 2007, under the U.S. Qualified Pension Plan, Teradyne had cumulative gains of approximately \$3.2 million, which remain to be recognized in the calculation of the market-related value of assets. The discount rate that Teradyne utilized for determining future pension obligations for the U.S. Qualified Pension Plan is based on the Citigroup Pension Liability Index, which was at 6.5% at December 31, 2007, up from 5.9% at December 31, 2006. As a result, Teradyne selected 6.5% for its December 31, 2007 discount rate, up from 6.0% as of December 31, 2006.

*Plan Assets*

Teradyne's weighted average asset allocation at December 31, 2007 and 2006, by asset category is as follows:

|                   | United States Plan |        | Foreign Plans |        |
|-------------------|--------------------|--------|---------------|--------|
|                   | 2007               | 2006   | 2007          | 2006   |
| Equity Securities | 46.3%              | 49.3%  | 53.8%         | 55.9%  |
| Debt Securities   | 53.7               | 50.7   | 40.3          | 38.6   |
| Other             |                    |        | 5.9           | 5.5    |
| Total             | 100.0%             | 100.0% | 100.0%        | 100.0% |

Teradyne employs a total return investment approach for its pension plan assets whereby a mix of equities and fixed income investments are used to ensure the preservation of capital and to maximize the long-term return of plan assets for a prudent level of risk. The investment portfolio contains a diversified blend of equity and fixed income investments. The investment portfolio will not at any time have a direct investment in Teradyne stock. It may have an indirect investment in Teradyne stock, if one of the funds selected by the investment manager invests in Teradyne stock.

The target asset allocation and index for each asset category for the U.S. Qualified Pension Plan, per policy, for the portfolio is as follows:

| Asset Category:         | Policy Index:  | Target |
|-------------------------|--|--------|
| Equity (Large cap)      | S&P 500 Stock Index  | 22%    |
| Equity (Small cap)      | Russell 2000 Index   | 10     |
| International Equity    | MSCI EAFE Index (Net Dividends) and MSCI Emerging Markets Free Index | 15     |
| Passive Fixed Income    | Lehman Aggregate Bond Index  | 33     |
| High-Yield Fixed Income | Lehman Brothers High Yield Very Liquid Index                         | 10     |
| Real Assets             | Real Asset Custom Index  | 10     |

Teradyne's investment manager regularly reviews Teradyne's actual asset allocation and periodically rebalances Teradyne's portfolio to ensure alignment to the targeted allocation. The investment return objectives are to achieve a rate of return, which exceeds the rate of inflation, as measured by the Consumer Price Index, by 3% per year, and to avoid excessive volatility and produce a rate of return that at least matches the Policy Index identified above. The manager's investment performance is reviewed at least annually. Results for the total

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

portfolio and for each major category of assets are evaluated in comparison with appropriate market indices, the Policy Index, other similarly managed portfolios and the Consumer Price Index. The assets of Teradyne's foreign pension plans are invested in funds which seek to combine long-term growth potential offered through equity exposure with the relative security provided by equity, bonds and cash.

*Contributions*

Teradyne's funding policy is to make contributions to the plans in accordance with local laws and to the extent that such contributions are tax deductible. During 2007, 2006 and 2005, Teradyne contributed \$4.8 million, \$30.2 million and \$40.1 million, respectively, to the plans. Based upon the U.S. Qualified Pension Plan funded status as of December 31, 2007, Teradyne does not expect to make any contributions to this plan in 2008. Contributions that will be made in 2008 to certain Qualified Plans for non-U.S. subsidiaries are based on local statutory requirements and will be approximately \$2.4 million.

*Expected Future Pension Benefits Payments*

The following benefit payments, which reflect future service, as appropriate, are expected to be paid as follows:

|           | United States  | Foreign  |
|-----------|----------------|----------|
|           | (in thousands) |          |
| 2008      | \$ 10,404      | \$ 1,929 |
| 2009      | 10,978         | 1,786    |
| 2010      | 11,842         | 1,751    |
| 2011      | 12,614         | 2,176    |
| 2012      | 13,935         | 3,390    |
| 2013-2017 | 87,493         | 18,462   |

**Post-Retirement Benefit Plans**

In addition to receiving pension benefits, U.S. Teradyne employees who meet early retirement eligibility requirements as of their termination dates may participate in Teradyne's Welfare Plan, which includes death, and medical and dental benefits up to age 65. Death benefits provide a fixed sum to retirees' survivors and are available to all retirees. Substantially all of Teradyne's current U.S. employees (including executive officers) could become eligible for these benefits, and the existing benefit obligation relates primarily to those employees.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

Teradyne uses a December 31 measurement date for its plan. The December 31 balances of the post retirement assets and obligations are shown below:

|                                      | 2007           | 2006        |
|--------------------------------------|----------------|-------------|
|                                      | (in thousands) |             |
| <b>Assets and Obligations</b>        |                |             |
| <b>Change in benefit obligation:</b> |                |             |
| Projected benefit obligation:        |                |             |
| Beginning of year                    | \$ 24,208      | \$ 31,328   |
| Service cost                         | 254            | 255         |
| Interest cost                        | 1,315          | 1,404       |
| Actuarial gain                       | (1,385)        | (5,824)     |
| Benefits paid                        | (3,104)        | (2,955)     |
| End of year                          | 21,288         | 24,208      |
| <b>Change in plan assets:</b>        |                |             |
| Fair value of plan assets:           |                |             |
| Beginning of year                    |                |             |
| Company contributions                | 3,102          | 2,955       |
| Benefits paid                        | (3,102)        | (2,955)     |
| End of year                          |                |             |
| Funded status                        | \$ (21,288)    | \$ (24,208) |

The following table provides amounts recorded within the account line items of financial position as of December 31:

|   | 2007           | 2006        |
|---|----------------|-------------|
|   | (in thousands) |             |
| Accrued employees compensation and withholdings | \$ (2,855)     | \$ (2,970)  |
| Long-term retirement plans liability            | (18,403)       | (21,238)    |
|   | \$ (21,258)    | \$ (24,208) |

The following table provides amounts recognized in accumulated other comprehensive loss as of December 31:

|  | 2007           | 2006     |
|--|----------------|----------|
|  | (in thousands) |          |
| Net loss                                     | \$ 4,281       | \$ 5,942 |
| Prior service credit                         | (2,229)        | (2,463)  |
| Total recognized in other comprehensive loss | 2,052          | 3,479    |

Edgar Filing: TERADYNE, INC - Form 10-K

The estimated portion of net loss and prior service credit remaining in accumulated other comprehensive income that is expected to be recognized as a component of net periodic post-retirement benefit cost in 2008 is \$0.2 million and \$(0.2) million, respectively.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## N. RETIREMENT PLANS (Continued)

*Expense*

For the years ended December 31, 2007, 2006 and 2005, Teradyne's net periodic post-retirement benefit cost were comprised of:

|   | 2007           | 2006     | 2005     |
|---|----------------|----------|----------|
|   | (in thousands) |          |          |
| <b>Components of Net Periodic Post-Retirement Benefit Cost:</b> |                |          |          |
| Service cost  | \$ 254         | \$ 255   | \$ 500   |
| Interest cost   | 1,315          | 1,404    | 1,684    |
| Amortization of:  |                |          |          |
| Prior service credit  | (234)          | (234)    | (288)    |
| Net loss  | 285            | 550      | 905      |
| Curtailment cost  |                |          | (822)    |
| Total net periodic post-retirement benefit cost                 | 1,620          | \$ 1,975 | \$ 1,979 |

**Other Changes in Plan Assets and Benefit Obligations Recognized in Other Comprehensive Income:**

|  |         |
|--|---------|
| Net gain   | (1,385) |
| Reversal of amortization items:  |         |
| Prior service credit   | 234     |
| Net loss   | (285)   |
| Total recognized in other comprehensive income   | (1,436) |
| Total recognized in net periodic post-retirement benefit cost and other comprehensive income | \$ 184  |

*Weighted Average Assumptions to Determine Net Periodic Post-Retirement Benefit Cost as of January 1*

|   | 2007 | 2006 | 2005  |
|---|------|------|-------|
| Discount rate   | 6.0% | 5.5% | 5.75% |
| Initial Health Care Cost Trend Rate                           | 9.75 | 10.0 | 10.0  |
| Ultimate Health Care Cost Trend Rate                          | 5.0  | 5.0  | 5.0   |
| Year in which Ultimate Health Care Cost Trend Rate is reached | 2014 | 2011 | 2010  |

*Weighted Average Assumptions to Determine Post Retirement Benefit Obligation as of December 31*

|   | 2007 | 2006 | 2005 |
|---|------|------|------|
| Discount rate   | 6.5% | 6.0% | 5.5% |
| Initial Medical Trend                                     | 9.0  | 10.0 | 10.0 |
| Ultimate Health Care Trend                                | 5.0  | 5.0  | 5.0  |
| Medical cost trend rate decrease to ultimate rate in year | 2014 | 2014 | 2011 |



Assumed health care trend rates could have a significant effect on the amounts reported for health care plans. A one percentage point change in the assumed health care cost trend rates for the year ended December 31, 2007 would have the following effects:

|  | 1 Percentage<br>Point<br>Increase | 1 Percentage<br>Point<br>Decrease |
|--|-----------------------------------|-----------------------------------|
|  | (in thousands)                    |                                   |
| Effect on total service and interest cost components | \$ (128)                          | \$ 115                            |
| Effect on postretirement benefit obligations         | \$ (1,185)                        | \$ 1,092                          |
| <i>Expected Future Benefits Payments</i>             |                                   |                                   |

The following benefit payments, which reflect future service, as appropriate, are expected to be paid:

|           | Benefits<br>(in thousands) |
|-----------|----------------------------|
| 2008      | 2,885                      |
| 2009      | 2,785                      |
| 2010      | 2,686                      |
| 2011      | 2,431                      |
| 2012      | 2,161                      |
| 2013-2017 | 8,598                      |

## O. STOCK BASED COMPENSATION

### Stock Compensation Plans

Under its stock compensation plans Teradyne granted options to purchase common stock at 100% of the fair market value on the date of grant. Options granted to employees prior to September 2001 vest in equal installments over four years and have a maximum term of five years. Beginning in September 2001, options granted to employees vest in equal installments over four years and have a maximum term of seven years. In addition, in 2001, Teradyne made a one-time option grant to all employees that vested over two years and has a term of seven years. Options granted to non-employee directors prior to February 5, 2001 vest in equal installments over four years and have a maximum term of five years. Options granted to non-employee directors on or after February 5, 2001 are immediately vested, fully exercisable and have a maximum term of either five or seven years.

Restricted stock unit awards granted to employees prior to 2006 (excluding executive officers) vest over a two year period, with 50% vesting on each of the first and the second anniversaries of the grant date. Restricted stock unit awards granted to employees in 2006 and 2007 (excluding executive officers) vest in equal annual installments over four years. Restricted stock unit awards granted to non-employee directors vest after a one year period, with 100% of the award vesting on the first anniversary of the grant date. Restricted stock unit awards granted to executive officers, including the CEO, in January 2006, vest over two years. Restricted stock unit awards granted to executive officers, including the CEO, in January 2007 vest over four years. A portion of the restricted stock unit awards granted to executive officers, including the CEO, is subject to time-based vesting and a portion of the awards is subject to performance-based vesting. The percentage level of performance satisfied for performance-based grants is assessed on or near the anniversary of the grant date and, in turn, that percentage

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## O. STOCK BASED COMPENSATION (Continued)

level determines the number of performance-based restricted stock units available for vesting over the vesting period; portions of the performance-based grants not available for vesting will be forfeited. The weighted-average grant-date fair value of the restricted stock units granted in 2007, 2006 and 2005 was \$15.18, \$16.53 and \$15.58, respectively.

Stock compensation plan activity for the years 2007, 2006 and 2005 follows:

|  | 2007           | 2006    | 2005    |
|--|----------------|---------|---------|
|  | (in thousands) |         |         |
| <b>Restricted Stock Units:</b>             |                |         |         |
| Non-vested at January 1                    | 1,128          | 1,465   |         |
| Awarded                                    | 2,101          | 482     | 1,467   |
| Vested                                     | (809)          | (680)   |         |
| Forfeited                                  | (221)          | (139)   | (2)     |
| Non-vested at December 31                  | 2,199          | 1,128   | 1,465   |
| <b>Stock Options:</b>                      |                |         |         |
| Outstanding at January 1                   | 19,011         | 22,950  | 31,017  |
| Options granted                            |                |         | 544     |
| Options exercised                          | (691)          | (729)   | (509)   |
| Options forfeited                          | (54)           | (130)   | (925)   |
| Options cancelled                          | (1,124)        | (3,080) | (7,177) |
| Outstanding at December 31                 | 17,142         | 19,011  | 22,950  |
| Vested and expected to vest at December 31 | 17,139         | 18,986  | 22,950  |
| Exercisable at December 31                 | 17,069         | 18,007  | 20,886  |

Total shares available for the years 2007, 2006 and 2005:

|                                    | 2007           | 2006     | 2005    |
|------------------------------------|----------------|----------|---------|
|                                    | (in thousands) |          |         |
| <b>Shares available:</b>           |                |          |         |
| Available for grant at January 1   | 11,901         | 25,723   | 19,630  |
| Option grants                      |                |          | (544)   |
| Options cancellations/forfeitures  |                | 3,080    | 8,102   |
| Restricted stock units granted     | (2,102)        | (482)    | (1,467) |
| Restricted stock units vested      | 33             |          |         |
| Restricted stock units forfeited   | 148            | 139      | 2       |
| Adjustment to shares available     |                | (16,559) |         |
| Available for grant at December 31 | 9,980          | 11,901   | 25,723  |

In May 2006, the 1991 Employee Stock Option Plan, the 1996 Non-Employee Director Stock Option Plan and the 1997 Employee Stock Option Plan were terminated and the 2006 Equity and Cash Compensation Incentive Plan was approved by Teradyne's shareholders. As a result, the

Edgar Filing: TERADYNE, INC - Form 10-K

number of shares available for future issuance was reduced by 16,559,000 shares from the terminated plans.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## O. STOCK BASED COMPENSATION (Continued)

Weighted-average restricted stock unit award date fair value information for the years 2007, 2006 and 2005 follows:

|                           | 2007           | 2006     | 2005     |
|---------------------------|----------------|----------|----------|
|                           | (in thousands) |          |          |
| Non-vested at January 1   | \$ 16.00       | \$ 15.58 | \$       |
| Awarded                   | 15.18          | 16.53    | 15.58    |
| Vested                    | 15.49          | 15.58    |          |
| Forfeited                 | 15.36          | 15.62    | 15.58    |
| Non-vested at December 31 | \$ 15.47       | \$ 16.00 | \$ 15.58 |

Restricted stock unit awards aggregate intrinsic value information at December 31 for the years 2007, 2006 and 2005 follows:

|                  | 2007           | 2006      | 2005      |
|------------------|----------------|-----------|-----------|
|                  | (in thousands) |           |           |
| Outstanding      | \$ 23,541      | \$ 16,149 | \$ 24,452 |
| Expected to vest | \$ 20,844      | \$ 15,393 | \$ 22,730 |

Restricted stock units weighted average contractual terms (in years) information at December 31, for the years 2007, 2006 and 2005 follows:

|                  | 2007 | 2006 | 2005 |
|------------------|------|------|------|
| Outstanding      | 3.01 | 0.95 | 1.43 |
| Expected to vest | 3.00 | 0.92 | 1.42 |

Weighted average stock options exercise price information for the years 2007, 2006 and 2005 follows:

|                            | 2007     | 2006     | 2005     |
|----------------------------|----------|----------|----------|
| Outstanding at January 1   | \$ 20.66 | \$ 20.73 | \$ 22.72 |
| Options granted            |          |          | 14.43    |
| Options exercised          | 12.79    | 12.15    | 11.64    |
| Options forfeited          | 12.73    | 12.99    | 15.73    |
| Options canceled           | 24.08    | 23.44    | 28.53    |
| Outstanding at December 31 | 20.78    | 20.66    | 20.73    |
| Exercisable at December 31 | 20.81    | 21.15    | 21.60    |

Stock option aggregate intrinsic value information for the years ended December 31, 2007, 2006 and 2005 follows:

|                             | 2007           | 2006      | 2005      |
|-----------------------------|----------------|-----------|-----------|
|                             | (in thousands) |           |           |
| Exercised                   | \$ 2,104       | \$ 2,969  | \$ 1,774  |
| Outstanding                 | \$ 6           | \$ 10,412 | \$ 24,341 |
| Vested and expected to vest | \$ 6           | \$ 10,365 | \$ 24,341 |
| Exercisable                 | \$ 6           | \$ 7,952  | \$ 14,466 |



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## O. STOCK BASED COMPENSATION (Continued)

Stock options weighted average contractual terms (in years) information at December 31, for the years 2007, 2006 and 2005 follows:

|                             | 2007 | 2006 | 2005 |
|-----------------------------|------|------|------|
| Outstanding                 | 1.9  | 3.0  | 3.9  |
| Vested and Expected to vest | 1.9  | 3.0  | 3.9  |
| Exercisable                 | 1.9  | 2.9  | 3.9  |

Significant option groups outstanding at December 31, 2007 and related weighted average price and remaining contractual life information follow:

| Range Of Exercise Prices | Options Outstanding                                 |        |  | Options Exercisable |                                 |
|--------------------------|---|--------|--|---------------------|---------------------------------|
|                          | Weighted-Average Remaining Contractual Life (Years) | Shares | Weighted-Average Exercise Price (options in thousands) | Shares              | Weighted-Average Exercise Price |
| \$ 9.42 \$17.39          | 2.51  | 3,658  | \$ 12.07   | 3,585               | \$ 12.02                        |
| \$ 17.40 \$21.64         | 1.58  | 3,739  | 17.51  | 3,739               | 17.51                           |
| \$ 21.65 \$26.72         | 1.04  | 5,120  | 21.90  | 5,120               | 21.90                           |
| \$ 26.73 \$166.98        | 2.72  | 4,625  | 29.09  | 4,625               | 29.09                           |
| Total                    |   | 17,142 | \$ 20.78   | 17,069              | \$ 20.81                        |

## Employee Stock Purchase Plan

Under the Teradyne 1996 Employee Stock Purchase Plan, eligible employees (including executive officers) may purchase shares of common stock through regular payroll deductions of up to 10% of their compensation. Under the plan, the price paid for the common stock is equal to 85% of the lower of the fair market value of Teradyne's common stock on the first business day and the last business day of the purchase period. On November 9, 2004, the Board of Directors approved a plan amendment which replaced the existing twelve (12) month purchase period with two six (6) month purchase periods, effective January 1, 2005. In July 2007, 0.6 million shares of common stock were issued to employees who participated in the plan during the first half of 2007, at the weighted average price of \$12.78 per share. In January 2008, Teradyne issued 0.7 million shares of common stock to employees who participated in the plan during the second half of 2007, at the weighted average price of \$8.79 per share.

## P. SAVINGS PLAN

Teradyne sponsors an employee retirement Savings Plan covering substantially all U.S. employees. Under Teradyne's savings plan, employees may contribute up to 20% of their compensation (subject to Internal Revenue Service limitations). Teradyne annually matches employee contributions up to 6% of such compensation at rates ranging from 50% to 100% for employees in the defined benefit plan. For all other employees, Teradyne annually matches up to 5% of such compensation at rates ranging from 100% to 150%. Teradyne's contributions vest 25% per year for the first four years of employment, and contributions for those employees with four years of service vest immediately. Teradyne also has established an unfunded Supplemental Savings Plan to provide savings benefits in excess of those allowed by ERISA and the IRC. The provisions of this plan are the same as the Savings Plan. Under Teradyne's savings plans, amounts charged to operations were \$6.2 million in 2007, \$10.7 million in 2006 and \$9.1 million in 2005.





## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**Q. RELATED PARTY TRANSACTION**

During 2007, Paul Tufano, a member of our Board of Directors, was Executive Vice President, Chief Financial Officer and Interim Chief Executive Officer of Solectron Corporation until it was acquired by Flextronics in October 2007. Mr. Tufano is no longer an employee of Solectron or Flextronics. In the ordinary course of business, Teradyne has for the last ten years purchased printed circuit board assemblies from Solectron, and has also sold in-circuit testers to Solectron which Teradyne refers to as Flextronics. In August 2007, prior to the Flextronics acquisition, Teradyne expanded our contract with Solectron to have it provide additional manufacturing and test services, including areas of final configuration and test for most of Teradyne's FLEX family of products. In the years ended December 31, 2007, 2006 and 2005, Teradyne purchased \$207.8 million, \$229.9 million and \$153.1 million of printed circuit board assemblies and services from Flextronics, respectively. Sales of in-circuit testers to Flextronics for the years ended December 31, 2007, 2006 and 2005 were \$4.0 million, \$5.7 million and \$5.7 million respectively. As of December 31, 2007 and 2006, \$19.8 million and \$7.0 million, respectively, was included in accounts payable and \$17.5 million and \$1.3 million, respectively, was included in accounts receivable, representing amounts due to/from Flextronics.

**R. INCOME TAXES**

The components of income (loss) from continuing operations before income taxes and the provision for (benefit from) income taxes of continuing operations as shown in the consolidated statements of operations are as follows:

|  | 2007       | 2006<br>(in thousands) | 2005        |
|--|------------|------------------------|-------------|
| Income (loss) from continuing operations before income taxes:          |            |                        |             |
| U.S.   | \$ 208,509 | \$ 181,810             | \$ (88,012) |
| Non-U.S.   | (129,266)  | 54,221                 | 4,626       |
|  | \$ 79,243  | \$ 236,031             | \$ (83,386) |
| (Benefit) provision for income taxes from continuing operations:       |            |                        |             |
| Current:   |            |                        |             |
| U.S. Federal   | \$ (2,513) | \$ (6,320)             | \$ 951      |
| Non-U.S.   | 11,180     | 36,239                 | 8,781       |
| State  | (557)      | 1,958                  | 1,493       |
|  | 8,110      | 31,877                 | 11,225      |
| Deferred:  |            |                        |             |
| U.S. Federal   |            |                        | (29,200)    |
| Non-U.S.   | (750)      | (4,008)                | (1,755)     |
| State  |            |                        |             |
|  | (750)      | (4,008)                | (30,955)    |
| Total provision (benefit) for income taxes from continuing operations: | \$ 7,360   | \$ 27,869              | \$ (19,730) |

For the year ending December 31, 2007, income tax expense from continuing operations totaled

\$7.4 million. This amount relates primarily to tax provisions for foreign taxes as well as benefits related to the utilization of foreign tax credits in the U.S.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## R. INCOME TAXES (Continued)

During 2006, the income tax expense from continuing operations totaled \$27.9 million. This amount relates primarily to a tax provision for foreign taxes as well as benefits related to a one-time credit related to pension funding and settlement of the California income tax audit for 1998 through 2000.

For the year ended December 31, 2005, there was a tax benefit from continuing operations that totaled \$19.7 million. Under generally accepted accounting principles ( GAAP ), a benefit of \$29.2 million was recognized for losses relating to 2005 continuing operations. There was an equal and offsetting tax provision in the gain on sale of Connection Systems included in discontinued operations. The remaining portion of the net tax benefit includes a tax provision that related primarily to foreign taxes.

The total income tax provision (benefit) for the years ended December 31, 2007, 2006 and 2005 is as follows:

|                            | 2007     | 2006<br>(in thousands) | 2005        |
|----------------------------|----------|------------------------|-------------|
| Continuing operations      | \$ 7,360 | \$ 27,869              | \$ (19,730) |
| Discontinued operations    | 518      | 3,769                  | 32,349      |
| Total income tax provision | \$ 7,878 | \$ 31,638              | \$ 12,619   |

Significant components of Teradyne's deferred tax assets (liabilities) as of December 31, 2007 and 2006 are as follows:

|                                      | 2007<br>(in thousands) | 2006       |
|--------------------------------------|------------------------|------------|
| Deferred tax assets:                 |                        |            |
| Net operating loss carryforwards     | \$ 42,411              | \$ 164,061 |
| Tax credits                          | 63,516                 | 48,751     |
| Inventory valuations                 | 59,440                 | 54,779     |
| Accruals                             | 13,238                 | 7,980      |
| Research and development             | 58,864                 | 71,624     |
| Pension liability                    | 4,665                  | 12,356     |
| Intercompany license payments        | 57,000                 |            |
| Vacation accrual                     | 8,081                  | 7,707      |
| Equity compensation                  | 6,348                  | 4,494      |
| Amortization                         | 1,013                  |            |
| Other                                | 2,829                  | 526        |
| Gross deferred tax assets            | 317,405                | 372,278    |
| Less: valuation allowance            | (305,178)              | (351,656)  |
| Total deferred tax assets            | 12,227                 | 20,622     |
| Deferred tax liabilities:            |                        |            |
| Excess of tax over book depreciation | (2,731)                | (7,919)    |
| Amortization                         |                        | (2,733)    |
| Total deferred tax liabilities       | (2,731)                | (10,652)   |

Edgar Filing: TERADYNE, INC - Form 10-K

|                     |          |          |
|---------------------|----------|----------|
| Net deferred assets | \$ 9,496 | \$ 9,970 |
|---------------------|----------|----------|

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## R. INCOME TAXES (Continued)

At December 31, 2007 Teradyne had operating loss carryforwards that expire in the following years:

|              | U.S. Federal<br>Operating Loss<br>Carryforwards | State Net<br>Operating Loss<br>Carryforwards<br>(in thousands) | Foreign Net<br>Operating Loss<br>Carryforwards |
|--------------|---|--|--|
| 2008         |   | 48,976   |  |
| 2009         | 1,594   |  |  |
| 2010         | 511   |  |  |
| 2016         |   | 862  |  |
| 2017         |   | 2,910  |  |
| 2018         |   | 2,385  |  |
| 2019         |   |  |  |
| 2020         | 50,982  |  |  |
| 2021         |   |  |  |
| 2022         |   |  |  |
| 2023         | 26,530  |  |  |
| Beyond 2023  |   |  | 220  |
| Non-expiring |   |  | 139,280  |
| Total        | \$ 79,617                                       | \$ 55,133  | \$ 139,500                                     |

Of the U.S. Federal operating loss carryforwards, \$53.1 million relates to the acquisition of GenRad, Inc. in 2001. The GenRad losses are limited in the amount that can be used as a result of change in ownership rules as defined in the Internal Revenue Code of 1986.

Teradyne has approximately \$63.5 million of tax credit carry forwards. Business tax credits of approximately \$17.9 million expire in the years 2019 through 2027. Teradyne has foreign tax credits of approximately \$9.4 million expiring 2012 through 2017 and alternative minimum tax credits of approximately \$7.9 million, which do not expire. In addition, there are state tax credits of \$28.2 million which expire beginning in 2015.

During 2007 and 2006, Teradyne's valuation allowance decreased by \$48.3 million and \$56.2 million respectively primarily as a result of the utilization of net operating loss carryforwards against current year taxable income. Due to the continued uncertainty of realization, Teradyne maintained its valuation allowance at December 31, 2007 and 2006, for deferred tax assets in the U.S. and Singapore. Teradyne does not expect to significantly reduce its valuation allowance until sufficient positive evidence exists, including sustained profitability, that realization is more likely than not. The valuation allowance includes \$16.6 million for net deferred tax assets resulting from minimum pension liabilities and \$10.0 million for net operating loss carryforwards relating to stock compensation.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## R. INCOME TAXES (Continued)

A reconciliation of the effective tax rate for the years 2007, 2006 and 2005 follows:

|  | 2007   | 2006   | 2005    |
|--|--------|--------|---------|
| U.S. statutory federal tax rate                | 35.0%  | 35.0%  | (35.0)% |
| State income taxes, net of federal tax benefit | (0.7)  | 1.0    | 1.5     |
| Foreign taxes                                  | 60.6   | 17.4   | 5.3     |
| Export sales corporation                       |        | (0.8)  | (16.9)  |
| Federal income tax audit                       | 0.4    | (0.1)  | 2.5     |
| Valuation allowance                            | (75.4) | (38.5) | 18.4    |
| Current year tax credits                       | (9.9)  |        |         |
| Pension  |        | (2.6)  |         |
| U.S. permanent items                           | 2.8    | 0.8    | 0.6     |
| Other, net                                     | (3.5)  | (0.1)  | (1.0)   |
|  | 9.3%   | 12.1%  | (24.6)% |

For 2007 and 2006, the foreign taxes reconciling item includes losses generated in Singapore that are not tax affected at the U.S. federal tax rate. A corresponding valuation allowance has been established in Singapore for these losses.

Teradyne adopted FIN 48, Accounting for Uncertainties in Income Taxes (FIN 48) effective January 1, 2007. FIN 48 applies to all income tax positions accounted for under FASB Statement No. 109, Accounting for Income Taxes, and addresses the determination of whether tax benefits claimed or expected to be claimed on a tax return should be recorded in the financial statements. FIN 48 also addressed other aspects of reporting and disclosing uncertain tax positions. Upon adoption of FIN 48, there was no cumulative effect to retained earnings. It is anticipated that within the next twelve months there will be no change in unrecognized tax benefits due to audit settlements. As of December 31, 2007, Teradyne has open tax years beginning in 2003 for major jurisdictions including the U.S., Japan, Singapore and the United Kingdom. Teradyne records all interest and penalties related to income taxes as a component of income tax expense. Accrued interest and penalties related to income tax items at December 31, 2007 was not material.

Teradyne's unrecognized tax benefits are as follows (in thousands):

|  | For the year ended<br>December 31,<br>2007 |
|--|--|
| Beginning balance, upon adoption as of January 1, 2007 | \$ 10,584                                  |
| Additions:   |  |
| Tax positions for current year                         | 3,489                                      |
| Tax positions for prior years                          | 6,400                                      |
| Reductions:  |  |
| Tax positions for prior years                          | (6,351)                                    |
| Settlements with tax authorities                       | (4,342)                                    |
| Ending Balance as of December 31, 2007                 | \$ 9,780                                   |

---

TERADYNE, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

**R. INCOME TAXES (Continued)**

Current year and prior year additions include assessment of potential transfer pricing exposures and goodwill issues worldwide. Reductions for tax positions for prior years relate to changes in estimates regarding the limitation of acquired net operating losses. Settlements with tax authorities relate to the closing of transfer pricing issues with local tax authorities in Europe and Asia. Of the \$9.8 million of unrecognized tax benefits as of December 31, 2007, \$7.2 million would impact the consolidated income tax rate if ultimately recognized. The remaining \$2.6 million would impact the valuation allowance if ultimately recognized.

As of December 31, 2007, a deferred tax liability has not been established for approximately \$253.7 million of cumulative undistributed earnings of non-U.S. subsidiaries, as Teradyne plans to keep these amounts permanently reinvested overseas. Beginning in 2006, Teradyne received from Singapore tax incentives for earnings from investments and related activities that began in that country in 2005. These incentives extend through 2019 and have resulted in \$1.5 million and \$2.0 million in tax savings during 2007 and 2006, respectively. From 2003 through 2006, Teradyne received tax incentives to conduct business in the People's Republic of China. These tax incentives resulted in income tax savings of \$1.3 million, and \$0.9 million for the years ended December 31, 2006 and 2005, respectively.

**S. OPERATING SEGMENT AND GEOGRAPHIC INFORMATION**

Teradyne's two reportable segments are Semiconductor Test and Systems Test Group. The Semiconductor Test segment includes operations related to the design, manufacturing and marketing of semiconductor test products and services. The Systems Test Group segment includes operations related to the design, manufacturing and marketing of circuit-board test and inspection products and services, military/aerospace instrumentation test products and services, and automotive diagnostic and test products and services.

During the third quarter of 2007, the internal management reporting of the Company changed to better align with the company's operational management structure, resulting in a change in the Company's reportable segments. Segment reporting has been restated for all periods presented to reflect this change. Each reportable segment has one segment president who reports directly to the chief operating decision maker and the segments reporting presented reflects the information reviewed and used by the chief operating decision maker.



## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## S. OPERATING SEGMENT AND GEOGRAPHIC INFORMATION (Continued)

Teradyne evaluates performance using several factors, of which the primary financial measure is business segment income from continuing operations before taxes. The accounting policies of the business segments are the same as those described in Note B: Accounting Policies. Due to the sale on August 1, 2007 of Broadband Test Division, its results have been excluded from segment reporting and included in discontinued operations for all periods presented. Previously, Broadband Test Division and Diagnostic Solutions had been combined to form the Other Test Systems segment. Diagnostic Solutions and Assembly Test are now components of the Systems Test Group segment. Segment information for the years ending December 31, 2007, 2006 and 2005 is as follows (in thousands):

|  | Semiconductor<br>Test | Systems Test<br>Group | Corporate<br>And<br>Eliminations | Consolidated |
|--|-----------------------|-----------------------|----------------------------------|--------------|
| <b>2007</b>  |                       |                       |                                  |              |
| Net revenue  | \$ 876,514            | \$ 225,766            | \$                               | \$ 1,102,280 |
| Income from continuing operations before taxes (1)(2)        | 25,093                | 12,042                | 42,108                           | 79,243       |
| Total assets (3)   | 540,939               | 219,724               | 794,625                          | 1,555,288    |
| Property additions (4)                                       | 75,236                | 7,850                 | 3,002                            | 86,088       |
| Depreciation and amortization expense (4)                    | 54,080                | 7,655                 | 5,760                            | 67,495       |
| <b>2006</b>  |                       |                       |                                  |              |
| Net revenue  | \$ 1,088,918          | \$ 267,331            | \$                               | \$ 1,356,249 |
| Income from continuing operations before taxes (1)(2)        | 183,126               | 24,172                | 28,733                           | 236,031      |
| Total assets continuing operations (3)                       | 490,319               | 258,771               | 967,628                          | 1,716,718    |
| Property additions (4)                                       | 97,463                | 5,011                 | 7,535                            | 110,009      |
| Depreciation and amortization expense (4)                    | 57,376                | 7,130                 | 8,576                            | 73,082       |
| <b>2005</b>  |                       |                       |                                  |              |
| Net revenue  | \$ 814,221            | \$ 230,883            | \$                               | \$ 1,045,104 |
| Income (loss) from continuing operations before taxes (1)(2) | (88,614)              | 19,655                | (14,427)                         | (83,386)     |
| Total assets continuing operations (3)                       | 639,532               | 239,581               | 969,613                          | 1,848,726    |
| Property additions (4)                                       | 103,085               | 4,677                 | 4,913                            | 112,675      |
| Depreciation and amortization expense (4)                    | 72,926                | 7,544                 | 9,790                            | 90,260       |

- (1) Net interest income is included in Corporate and Eliminations.
- (2) Included in income from continuing operations before taxes are charges and credits related to restructuring and other, net real estate gains, investments, inventory provision recovery and inventory writedowns.
- (3) Total business assets are directly attributable to each business. Corporate assets consist of cash and cash equivalents, marketable securities, unallocated fixed assets of support departments, common facilities and certain other assets.
- (4) Corporate property additions and depreciation and amortization expense include items attributable to the unallocated fixed assets of support departments and common facilities.

## TERADYNE, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)

## S. OPERATING SEGMENT AND GEOGRAPHIC INFORMATION (Continued)

Included in the Semiconductor Test segment are charges and credits in the following accounts:

|                                   | For the Year Ended December 31, |                    |                  |
|-----------------------------------|---------------------------------|--------------------|------------------|
|                                   | 2007                            | 2006               | 2005             |
|                                   |                                 | (in thousands)     |                  |
| Cost of revenues inventory charge | \$ 492                          | \$ 11,479          | \$ 45,475        |
| Restructuring and other, net      | (382)                           | (35,733)           | 6,114            |
| <b>Total</b>                      | <b>\$ 110</b>                   | <b>\$ (24,254)</b> | <b>\$ 51,589</b> |

Included in the Systems Test Group segment are charges and credits in the following accounts:

|                                   | For the Year Ended December 31, |                |                 |
|-----------------------------------|---------------------------------|----------------|-----------------|
|                                   | 2007                            | 2006           | 2005            |
|                                   |                                 | (in thousands) |                 |
| Cost of revenues inventory charge | \$ 1,343                        | \$ 1,336       | \$ 3,558        |
| Restructuring and other, net      | 2,723                           | (741)          | 2,469           |
| <b>Total</b>                      | <b>\$ 4,066</b>                 | <b>\$ 595</b>  | <b>\$ 6,027</b> |

Included in the Corporate and Eliminations segment are charges and credits in the following accounts:

|                                     | For the Year Ended December 31, |                |                 |
|-------------------------------------|---------------------------------|----------------|-----------------|
|                                     | 2007                            | 2006           | 2005            |
|                                     |                                 | (in thousands) |                 |
| Restructuring and other, net charge | \$ (3,000)                      | \$ 441         | \$ 9,061        |
| Other income and expense, net       | (1,832)                         |                |                 |
| <b>Total</b>                        | <b>\$ (4,832)</b>               | <b>\$ 441</b>  | <b>\$ 9,061</b> |

Information as to Teradyne's revenue in different geographical areas is as follows:

|  | 2007           | 2006       | 2005       |
|--|----------------|------------|------------|
|  | (in thousands) |            |            |
| Revenue to unaffiliated customers (1): |                |            |            |
| United States                          | \$ 254,379     | \$ 315,689 | \$ 232,852 |
| South East Asia                        | 243,088        | 325,597    | 253,619    |
| Europe                                 | 129,533        | 193,802    | 158,258    |
| Taiwan                                 | 145,757        | 190,232    | 133,286    |
| Japan                                  | 131,204        | 164,680    | 97,140     |
| Singapore                              | 163,110        | 142,800    | 142,807    |
| Rest of the World                      | 35,209         | 23,449     | 27,142     |

|              |              |              |
|--------------|--------------|--------------|
| \$ 1,102,280 | \$ 1,356,249 | \$ 1,045,104 |
|--------------|--------------|--------------|

(1) Revenues are attributable to geographic areas based on location of customer site.  
Long-lived assets located outside the United States are less than 10% of total assets.

**TERADYNE, INC.**

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)**

84

**T. STOCK REPURCHASE PROGRAM**

In July 2006, Teradyne's Board of Directors authorized a stock repurchase program. Under the program, Teradyne could spend up to an aggregate of \$400 million to repurchase shares of its common stock in open market purchases, in privately negotiated transactions or through other appropriate means over two years. Shares were to be repurchased at Teradyne's discretion, subject to market conditions and other factors. In October 2007, Teradyne completed the \$400 million stock repurchase program, repurchasing a cumulative total of 27.9 million shares of common stock at an average price of \$14.31 per share.

In November 2007, Teradyne's Board of Directors authorized a new stock repurchase program. Under the program, Teradyne is permitted to spend an aggregate of \$400 million to repurchase shares of its common stock in open market purchases, in privately negotiated transactions or through other means. Shares are to be repurchased at Teradyne's discretion, subject to market conditions and other factors. During the year ended December 31, 2007, Teradyne repurchased 18.3 million shares of common stock for \$273.7 million at an average price of \$14.94.

**U. SUBSEQUENT EVENT**

On January 24, 2008, Teradyne completed the acquisition of Nextest Systems Corporation ( Nextest ) for an estimated net purchase price of approximately \$325 million. This estimated purchase price is net of the cash acquired and includes the fair value of fully vested employee equity instruments and transaction costs. The allocation of the purchase price is in process, but not yet complete. The acquisition allows Teradyne to enter the flash memory test segment. Nextest designs, develops, manufactures, sells and services low-cost, high throughput automated test equipment systems for the semiconductor industry. Nextest competes in the flash memory, flash card, and flash memory based system-on-chip markets. Their products are used to test integrated circuits such as microcontrollers, image sensors, smart cards and field programmable logic devices. Nextest will be included within Teradyne's Semiconductor Test segment.

## SUPPLEMENTARY INFORMATION

(Unaudited)

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

|  | 2007                                     |                    |                    |                    |
|--|--|--------------------|--------------------|--------------------|
|  | 1st Quarter<br>(1)                       | 2nd Quarter<br>(2) | 3rd Quarter<br>(3) | 4th Quarter<br>(4) |
|  | (in thousands, except per share amounts) |                    |                    |                    |
| <b>Net Revenue:</b>  |  |                    |                    |                    |
| Products   | \$ 194,632                               | \$ 229,504         | \$ 239,299         | \$ 198,148         |
| Services   | 59,061                                   | 59,206             | 60,162             | 62,268             |
| <b>Total net revenue</b>   | <b>253,693</b>                           | <b>288,710</b>     | <b>299,461</b>     | <b>260,416</b>     |
| <b>Cost of revenue:</b>  |  |                    |                    |                    |
| Cost of products   | 99,991                                   | 112,338            | 117,268            | 100,867            |
| Cost of services   | 40,305                                   | 39,152             | 37,947             | 40,979             |
| <b>Total cost of revenue</b>   | <b>140,296</b>                           | <b>151,490</b>     | <b>155,215</b>     | <b>141,846</b>     |
| <b>Gross profit</b>  | <b>113,397</b>                           | <b>137,220</b>     | <b>144,246</b>     | <b>118,570</b>     |
| <b>Operating expenses:</b>   |  |                    |                    |                    |
| Engineering and development  | 49,262                                   | 52,417             | 52,245             | 50,420             |
| Selling and administrative   | 63,012                                   | 62,760             | 62,870             | 62,199             |
| In-process research and development  | 16,700                                   |                    |                    |                    |
| Restructuring and other, net   | 2,247                                    | 568                | (3,119)            | (355)              |
| <b>Total operating expenses</b>  | <b>131,221</b>                           | <b>115,745</b>     | <b>111,996</b>     | <b>112,264</b>     |
| <b>Income (loss) from operations</b>                                       | <b>(17,824)</b>                          | <b>21,475</b>      | <b>32,250</b>      | <b>6,306</b>       |
| Interest income  | 10,099                                   | 9,299              | 7,784              | 8,711              |
| Interest expense   | (436)                                    | (74)               | (119)              | (60)               |
| Other Income   | 1,832                                    |                    |                    |                    |
| <b>(Loss) income from continuing operations before taxes</b>               | <b>(6,329)</b>                           | <b>30,700</b>      | <b>39,915</b>      | <b>14,957</b>      |
| Provision (benefit) for income taxes                                       | 1,385                                    | 3,454              | 4,717              | (2,196)            |
| <b>(Loss) income from continuing operations</b>                            | <b>(7,714)</b>                           | <b>27,246</b>      | <b>35,198</b>      | <b>17,153</b>      |
| <b>Income (loss) from discontinued operations before taxes</b>             | <b>93</b>                                | <b>618</b>         | <b>6,084</b>       | <b>(449)</b>       |
| Provision for income taxes   | 15                                       | 210                | 293                |                    |
| <b>Income (loss) from discontinued operations</b>                          | <b>78</b>                                | <b>408</b>         | <b>5,791</b>       | <b>(449)</b>       |
| <b>Net (loss) income</b>   | <b>\$ (7,636)</b>                        | <b>\$ 27,654</b>   | <b>\$ 40,989</b>   | <b>\$ 16,704</b>   |
| <b>(Loss) income from continuing operations per common share - basic</b>   | <b>\$ (0.04)</b>                         | <b>\$ 0.14</b>     | <b>\$ 0.19</b>     | <b>\$ 0.10</b>     |
| <b>(Loss) income from continuing operations per common share - diluted</b> | <b>\$ (0.04)</b>                         | <b>\$ 0.14</b>     | <b>\$ 0.19</b>     | <b>\$ 0.10</b>     |

Edgar Filing: TERADYNE, INC - Form 10-K

|  |           |         |         |         |
|--|-----------|---------|---------|---------|
| Net (loss) income per common share basic   | \$ (0.04) | \$ 0.15 | \$ 0.22 | \$ 0.10 |
| Net (loss) income per common share diluted | \$ (0.04) | \$ 0.14 | \$ 0.22 | \$ 0.10 |

- (1) Restructuring and other, net includes \$2.1 million of severance charges related to headcount reductions across all segments, and \$0.1 million of facility charges related to an early exit of a Systems Test Group facility in Poway, California.

- (2) Restructuring and other, net includes \$0.9 million credit for earn-out payments received in the Systems Test Group from product line divestitures, \$1.7 million of severance charges related to headcount reductions across all segments, and \$0.2 million credit for revised estimates on severance charges.
- (3) Restructuring and other, net includes \$3.6 million gain on the sale of land and building in Deerfield, Illinois, \$1.8 million of cash proceeds recovered from insurance related to a facility fire in Taiwan, and \$2.3 million of severance charges related to headcount reductions across all segments.
- (4) Restructuring and other, net includes \$2.5 cash proceeds recovered from insurance related to a facility fire in Taiwan, \$0.4 million of severance charges related to headcount reductions across all segments, and \$1.7 million facility related charge consisting of revised estimates of losses due to changes in the assumed amount and timing of sublease income on a Systems Test Group facility in Westford, MA.

Edgar Filing: TERADYNE, INC - Form 10-K

|  | 2006                                     |                    |                    |                    |
|--|--|--------------------|--------------------|--------------------|
|  | 1st Quarter<br>(1)                       | 2nd Quarter<br>(2) | 3rd Quarter<br>(3) | 4th Quarter<br>(4) |
|  | (in thousands, except per share amounts) |                    |                    |                    |
| <b>Net Revenue:</b>  |  |                    |                    |                    |
| Products   | \$ 297,255                               | \$ 327,753         | \$ 294,838         | \$ 198,965         |
| Services   | 58,774                                   | 59,066             | 59,879             | 59,719             |
| Total net revenue  | 356,029                                  | 386,819            | 354,717            | 258,684            |
| <b>Cost of revenue:</b>  |  |                    |                    |                    |
| Cost of products   | 150,324                                  | 158,498            | 142,301            | 99,189             |
| Cost of services   | 38,571                                   | 37,746             | 38,031             | 39,707             |
| Total cost of revenue  | 188,895                                  | 196,244            | 180,332            | 138,896            |
| Gross profit   | 167,134                                  | 190,575            | 174,385            | 119,788            |
| <b>Operating expenses:</b>                                     |  |                    |                    |                    |
| Engineering and development                                    | 50,562                                   | 51,840             | 51,791             | 48,243             |
| Selling and administrative                                     | 70,424                                   | 73,913             | 70,452             | 68,223             |
| Restructuring and other, net                                   | (1,098)                                  | (20,596)           | (15,112)           | 773                |
| Total operating expenses                                       | 119,888                                  | 105,157            | 107,131            | 117,239            |
| Income from operations   | 47,246                                   | 85,418             | 67,254             | 2,549              |
| Interest income  | 9,483                                    | 11,659             | 12,453             | 11,029             |
| Interest expense   | (3,371)                                  | (3,470)            | (3,518)            | (701)              |
| Income from continuing operations before income taxes          | 53,358                                   | 93,607             | 76,189             | 12,877             |
| Provision (benefit) for income taxes                           | 8,588                                    | 9,420              | 9,866              | (5)                |
| Income from continuing operations                              | 44,770                                   | 84,187             | 66,323             | 12,882             |
| Income (loss) from discontinued operations before income taxes | 110                                      | (1,825)            | (1,908)            | (2,013)            |
| (Benefit) provision for income taxes                           | (33)                                     | (43)               | 3,850              | (5)                |
| Income (loss) from discontinued operations                     | 143                                      | (1,782)            | (5,758)            | (2,008)            |
| Net income   | \$ 44,913                                | \$ 82,405          | \$ 60,565          | \$ 10,874          |
| Income from continuing operations per common share basic       | \$ 0.23                                  | \$ 0.42            | \$ 0.34            | \$ 0.07            |
| Income from continuing operations per common share diluted     | \$ 0.22                                  | \$ 0.41            | \$ 0.34            | \$ 0.07            |
| Net income per common share basic                              | \$ 0.23                                  | \$ 0.42            | \$ 0.31            | \$ 0.06            |
| Net income per common share diluted                            | \$ 0.23                                  | \$ 0.40            | \$ 0.31            | \$ 0.06            |

- (1) Restructuring and other, net includes \$2.1 million for facility related net credit consisting of revised estimates of losses due to changes in the assumed amount and timing of sublease income for two Systems Test Group facilities that have been exited prior to the end of the lease term, \$1.1 million charge for the exit of a Semiconductor Test facility in Newbury Park, CA, \$0.2 million credit for earn-out payments received in the Systems Test Group segment and \$0.1 million charge for a software lease obligation in the Semiconductor Test segment.





- (2) Restructuring and other, net includes \$21.7 million gain on the sale of real estate, including \$21.2 million for a Semiconductor Test facility in Boston, MA and \$0.5 million for buildings in Nashua, NH, \$1.5 million of severance charges related to headcount reductions across all segments, \$0.3 million of credits related to exited leases in the Corporate segment, \$0.2 million credit for earn-out payments received in the Systems Test Group segment, and \$0.1 million of facility related charges for the exit of Semiconductor Test facility in Waltham, MA.
- (3) Restructuring and other, net includes \$16.6 million gain on the sale of real estate, including \$15.3 million for a Semiconductor Test facility in Boston, MA and \$1.3 million for a Semiconductor Test facility in San Jose, CA, \$1.0 million of severance charges related to headcount reductions across all segments, and \$0.5 million of net facility related charges consisting of revised estimates of losses due to changes in the assumed amount and timing of sublease income on an facility in Westford, MA.
- (4) Restructuring and other, net includes \$0.8 million gain on the sale of real estate for a Semiconductor Test parking facility in Boston, MA and \$1.6 million for severance charges related to headcount reductions across all segments.

**Item 9:** *Changes in and disagreements with accountants on accounting and financial disclosure*

None.

**Item 9A:** *Controls and procedures*

**Disclosure Controls and Procedures**

As of the end of the period covered by this report, our management, with the participation of our CEO and CFO, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15(b) promulgated under the Exchange Act. Based upon that evaluation, our CEO and CFO concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective in ensuring that material 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 time periods specified in the SEC's rules and forms, including ensuring that such material information is accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

**Changes in Internal Control Over Financial Reporting**

There was no change in our internal control over financial reporting during the fourth fiscal quarter ended December 31, 2007 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

**Management's Annual 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 CEO and CFO, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in *Internal Control - Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on our evaluation under the framework in *Internal Control - Integrated Framework*, our management concluded that our internal control over financial reporting was effective as of December 31, 2007.

The effectiveness of our internal control over financial reporting as of December 31, 2007 has been audited by PricewaterhouseCoopers LLP, our independent registered public accounting firm, as stated in their report which is included under Item 8 of this Annual Report.

**Inherent Limitations on Effectiveness of Controls**

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.

**Item 9B: *Other Information***

None.

**PART III**

**Item 10: *Directors, Executive Officers and Corporate Governance.***

Certain information relating to our directors and executive officers, committee information, reports and charters, executive compensation, security ownership of certain beneficial owners and management and related stockholder matters, and certain relationships and related transactions is incorporated by reference herein from our definitive proxy statement in connection with our Annual Meeting of Shareholders to be held on May 22, 2008. The proxy statement will be filed with the SEC not later than 120 days after the close of the fiscal year. For this purpose, the Compensation Committee Report included in such proxy statement is specifically not incorporated herein. Also see Item 1: Business Our Executive Officers.

**Item 11: *Executive Compensation.***

Certain information relating to our directors and executive officers, executive compensation, security ownership of certain beneficial owners and management and related stockholder matters, and certain relationships and related transactions is incorporated by reference herein from our definitive proxy statement in connection with our Annual Meeting of Shareholders to be held on May 22, 2008. The proxy statement will be filed with the SEC not later than 120 days after the close of the fiscal year. For this purpose, the Compensation Committee Report included in such proxy statement is specifically not incorporated herein.

**Item 12: *Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.***

Certain information relating to our directors and executive officers, executive compensation, security ownership of certain beneficial owners and management and related stockholder matters, and certain relationships and related transactions is incorporated by reference herein from our definitive proxy statement in connection with our Annual Meeting of Shareholders to be held on May 22, 2008. The proxy statement will be filed with the SEC not later than 120 days after the close of the fiscal year. For this purpose, the Compensation Committee Report included in such proxy statement is specifically not incorporated herein. Also see Item 7: Management's Discussion and Analysis of Financial Condition and Results of Operations Equity Compensation Plans.

**Item 13: *Certain Relationships and Related Transactions, and Director Independence.***

Certain information relating to our directors and executive officers, executive compensation, security ownership of certain beneficial owners and management and related stockholder matters, and certain relationships and related transactions is incorporated by reference herein from our definitive proxy statement in connection with our Annual Meeting of Shareholders to be held on May 22, 2008. The proxy statement will be filed with the SEC not later than 120 days after the close of the fiscal year. For this purpose, the Compensation Committee Report included in such proxy statement is specifically not incorporated herein.

**Item 14: *Principal Accountant Fees and Services.***

Certain information relating to audit fees and other of Teradyne's independent registered public accounting firm is incorporated by reference herein from our definitive proxy statement in connection with our Annual Meeting of Shareholders to be held on May 22, 2008. The proxy statement will be filed with the SEC not later than 120 days after the close of the fiscal year. For this purpose, the Audit Committee Report included in such proxy statement is specifically not incorporated herein.

## PART IV

**Item 15: Exhibits and Financial Statement Schedules.****15(a)(1) Financial Statements**

The following consolidated financial statements are included in Item 8:

|   |    |
|---|----|
| <u>Report of Independent Registered Public Accounting Firm</u>  | 38 |
| <u>Balance Sheets as of December 31, 2007 and 2006</u>  | 40 |
| <u>Statements of Operations for the years ended December 31, 2007, 2006 and 2005</u>                                    | 41 |
| <u>Statements of Shareholders' Equity and Comprehensive Income for the years ended December 31, 2007, 2006 and 2005</u> | 42 |
| <u>Statements of Cash Flows for the years ended December 31, 2007, 2006 and 2005</u>                                    | 43 |

**15(a)(2) Financial Statement Schedules**

The following consolidated financial statement schedule is included in Item 15(c):

## Schedule II Valuation and Qualifying Accounts

Schedules other than those listed above have been omitted since they are either not required or information is otherwise included.

**15(a)(3) Listing of Exhibits**

The Exhibits which are filed with this report or which are incorporated by reference herein are set forth in the Exhibit Index.

**15(c) Financial Statement Schedules**

## TERADYNE, INC.

## SCHEDULE II VALUATION AND QUALIFYING ACCOUNTS

| Column A  | Column B                          | Column C   | Column D   | Column E                    |
|---|-----------------------------------|--|------------|-----------------------------|
| Description   | Balance at<br>Beginning of Period | Column C<br>Additions<br>Charged to<br>Cost and Expenses<br>(in thousands) | Deductions | Balance at<br>End of Period |
| Valuation reserve deducted in the balance sheet from the asset to which it applies: |                                   |  |            |                             |
| Accounts receivable:  |                                   |  |            |                             |
| 2007 Allowance for doubtful accounts  | \$ 4,964                          | \$   | \$ 471     | \$ 4,493                    |
| 2006 Allowance for doubtful accounts  | \$ 4,737                          | \$ 227   | \$         | \$ 4,964                    |
| 2005 Allowance for doubtful accounts  | \$ 5,026                          | \$ 89  | \$ 378     | \$ 4,737                    |

Edgar Filing: TERADYNE, INC - Form 10-K

| Column A  | Column B   | Column C        | Column D   | Column E   |
|---|------------|-----------------|------------|------------|
| Description   | Balance at | Column C        | Deductions | Balance at |
|   | Beginning  | Additions       |            |            |
|   | of Period  | Charged to Cost |            | Period     |
|   |            | and Expenses    |            |            |
|   |            | (in thousands)  |            |            |
| Valuation reserve deducted in the balance sheet from the asset to which it applies: |            |                 |            |            |
| Inventory:  |            |                 |            |            |
| 2007 Inventory reserve  | \$ 138,427 | \$ 1,835        | \$ 34,642  | \$ 105,620 |
| 2006 Inventory reserve  | \$ 157,888 | \$ 12,815       | \$ 32,276  | \$ 138,427 |
| 2005 Inventory reserve  | \$ 144,441 | \$ 49,033       | \$ 35,586  | \$ 157,888 |

---

**EXHIBIT INDEX**

The following designated exhibits are, as indicated below, either filed herewith or have heretofore been filed with the Securities and Exchange Commission and are referred to and incorporated by reference to such filings.

| <b>Exhibit No.</b> | <b>Description</b>  | <b>SEC Document Reference</b>   |
|--------------------|---|---|
| 3.1                | Restated Articles of Organization, as amended.  | Exhibit 3.01 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 2, 2000.  |
| 3.2                | Amended and Restated By-laws, as amended.   | Exhibit 3.1 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007.   |
| 10.1               | Standard Manufacturing Agreement entered into as of November 24, 2003 by and between Teradyne and Solectron.                              | Exhibit 10.1 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007.  |
| 10.2               | Amendment 1 to Standard Manufacturing Agreement, dated as of January 18, 2007, by and between Teradyne and Solectron.                     | Exhibit 10.2 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007.  |
| 10.3               | Second Amendment to Standard Manufacturing Agreement, dated as of August 27, 2007, by and between Teradyne and Solectron.                 | Exhibit 10.3 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended September 30, 2007.  |
| 10.4               | 2006 Equity and Cash Compensation Incentive Plan, as amended.*  | Filed herewith.   |
| 10.5               | Form of Performance-Based Restricted Stock Unit Agreement for Executive Officers under 2006 Equity and Cash Compensation Incentive Plan.* | Filed herewith.   |
| 10.6               | Form of Time-Based Restricted Stock Unit Agreement for Executive Officers under 2006 Equity and Cash Compensation Incentive Plan.*        | Exhibit 10.15 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2006.   |
| 10.7               | Form of Restricted Stock Unit Agreement for Directors under 2006 Equity and Cash Compensation Incentive Plan.*                            | Exhibit 10.1 to Teradyne's Current Report on Form 8-K filed October 4, 2006.  |
| 10.8               | 1997 Employee Stock Option Plan, as amended and restated.*  | Exhibit 10.2 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended June 30, 2002 and Exhibit 10.5 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2006. |
| 10.9               | Form of Option Agreement under the 1997 Employee Stock Option Plan.*  | Exhibit 10.47 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended October 3, 2004.  |
| 10.10              | Form of Restricted Stock Unit Agreement for Executive Officers under the 1997 Employee Stock Option Plan.*                                | Exhibit 10.1 to Teradyne's Current Report on Form 8-K filed January 30, 2006.   |

Edgar Filing: TERADYNE, INC - Form 10-K

| <b>Exhibit No.</b> | <b>Description</b>  | <b>SEC Document Reference</b>   |
|--------------------|---|---|
| 10.11              | Form of Restricted Stock Unit Agreement for Directors under the 1997 Employee Stock Option Plan.*           | Exhibit 10.2 to Teradyne's Current Report on Form 8-K filed January 30, 2006.   |
| 10.12              | 1996 Non-Employee Director Stock Option Plan, as amended.*  | Exhibit 10.24 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2004 and Exhibit 10.4 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2006. |
| 10.13              | Form of Option Agreement under 1996 Non-Employee director Stock Option Plan.*                               | Exhibit 10.48 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended October 3, 2004.  |
| 10.14              | 1996 Employee Stock Purchase Plan, as amended.*   | Filed herewith.   |
| 10.15              | 1991 Employee Stock Option Plan, as amended.*   | Exhibit 10.1 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended June 2, 2002 and Exhibit 10.2 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2006.        |
| 10.16              | Form of Option Agreement under 1991 Employee Stock Option Plan.*  | Exhibit 10.46 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended October 3, 2004.  |
| 10.17              | Deferral Plan for Non-Employee Directors.*  | Exhibit 10.2 to Teradyne's Current Report on Form 8-K filed May 31, 2006.   |
| 10.18              | Supplemental Savings Plan, as amended and restated.*  | Filed herewith.   |
| 10.19              | Supplemental Executive Retirement Plan, as restated.*   | Exhibit 10.3 to Teradyne's Current Report on Form 8-K filed May 31, 2006.   |
| 10.20              | Executive Officer Change in Control Agreement dated March 1, 2007 between Teradyne and Michael A. Bradley.* | Exhibit 10.25 to Teradyne's Annual Report on Form 10-K for the fiscal year ended December 31, 2006.   |
| 10.21              | Agreement Regarding Termination Benefits between Teradyne and Michael A. Bradley.*                          | Exhibit 10.45 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended October 3, 2004.  |
| 10.22              | Employment Agreement dated July 30, 2004 between Teradyne and Michael A. Bradley.*                          | Exhibit 10.38 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 4, 2004.   |
| 10.23              | Employment Agreement dated August 9, 2004 between Teradyne and Gregory R. Beecher.*                         | Exhibit 10.40 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 4, 2004.   |
| 10.24              | Employment Agreement dated May 3, 2004 between Teradyne and Eileen Casal.*                                  | Exhibit 10.35 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 4, 2004.   |
| 10.25              | Employment Agreement dated August 9, 2004 between Teradyne and Jeffrey Hotchkiss.*                          | Exhibit 10.41 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 4, 2004.   |



Edgar Filing: TERADYNE, INC - Form 10-K

| <b>Exhibit No.</b> | <b>Description</b>   | <b>SEC Document Reference</b>  |
|--------------------|--|--|
| 10.26              | Employment Agreement dated May 7, 2004 between Teradyne and Mark Jagiela.* | Exhibit 10.37 to Teradyne's Quarterly Report on Form 10-Q for the quarter ended July 4, 2004.        |
| 10.27              | Form of Executive Officer Change in Control Agreement.*                    | Exhibit 10.26 to Teradyne's Annual Report on Form 10-K for the fiscal year ending December 31, 2006. |
| 10.28              | Form of Indemnification Agreement.*  | Exhibit 10.24 to Teradyne's Annual Report on Form 10-K for the fiscal year ending December 31, 2006. |
| 14.1               | Standards of Business Conduct, as amended.                                 | Exhibit 14.1 to Teradyne's Annual Report on Form 10-K for the fiscal year ending December 31, 2006.  |
| 21.1               | Subsidiaries of Teradyne.  | Filed herewith.  |
| 23.1               | Consent of PricewaterhouseCoopers LLP                                      | Filed herewith.  |
| 31.1               | Rule 13a-14(a) Certification of Principal Executive Officer.               | Filed herewith.  |
| 31.2               | Rule 13a-14(a) Certification of Principal Financial Officer.               | Filed herewith.  |
| 32.1               | Section 1350 Certification of Principal Executive Officer.                 | Furnished herewith.  |
| 32.2               | Section 1350 Certification of Principal Financial Officer.                 | Furnished herewith.  |

- Confidential treatment granted.

\* - Management contract or compensatory plan.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized this 28 day of February, 2008.

TERADYNE, INC.

By: /s/ GREGORY R. BEECHER  
**Gregory R. Beecher,**  
 Vice President, Chief Financial Officer and Treasurer

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

| Signature   | Title   | Date              |
|---|---|-------------------|
| /s/ PATRICIA S. WOLPERT<br><b>Patricia S. Wolpert</b> | Chair of the Board  | February 28, 2008 |
| /s/ MICHAEL A. BRADLEY<br><b>Michael A. Bradley</b>   | President and Chief Executive Officer (Principal Executive Officer)                 | February 28, 2008 |
| /s/ GREGORY R. BEECHER<br><b>Gregory R. Beecher</b>   | Vice President, Chief Financial Officer and Treasurer (Principal Financial Officer) | February 28, 2008 |
| /s/ DANIEL D. TEMPESTA<br><b>Daniel D. Tempesta</b>   | Corporate Controller (Principal Accounting Officer)                                 | February 28, 2008 |
| /s/ JAMES W. BAGLEY<br><b>James W. Bagley</b>         | Director  | February 28, 2008 |
| /s/ ALBERT CARNESALE<br><b>Albert Carnesale</b>       | Director  | February 28, 2008 |
| /s/ EDWIN J. GILLIS<br><b>Edwin J. Gillis</b>         | Director  | February 28, 2008 |
| /s/ VINCENT M. O REILLY<br><b>Vincent M. O Reilly</b> | Director  | February 28, 2008 |
| /s/ PAUL J. TUFANO<br><b>Paul J. Tufano</b>           | Director  | February 28, 2008 |
| /s/ ROY A. VALLEE<br><b>Roy A. Vallee</b>             | Director  | February 28, 2008 |

**Roy A. Vallee**