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**UNITED STATES**

**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**FORM 10-Q**

(Mark One)

1. Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 For the quarterly period ended August 2, 2003

or

[ ]

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_

Commission file number: 0-30877

**Marvell Technology Group Ltd.**

(Exact name of registrant as specified in its charter)

Bermuda

(State or other jurisdiction of

incorporation or organization)

77-0481679

(I.R.S. Employer

Identification No.)

4th Floor, Windsor Place, 22 Queen Street, P.O. Box HM 1179, Hamilton, HM EX, Bermuda

(Address, including Zip Code, of Principal Executive Offices)

(441) 296-6395

(Registrant’s telephone number, including area code)

N/A

(Former name, former address, and former fiscal year, if changed since last report)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Sections 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. [X] Yes [ ] No

Indicate by check mark if the registrant is an accelerated filer (as defined in Rule 12b-2 of the Exchange Act). [X] Yes [ ] No

Shares Outstanding of the Registrant’s Common Stock

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Class |  | Outstanding at August 31, 2003 |  |
|  |  |  |  |  |
|  | Common stock, $0.002 par value | 126,802,575 | |  |
|  |  |  |  |  |



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**PART I: FINANCIAL INFORMATION**

**Item 1. *Financial Statements***

**MARVELL TECHNOLOGY GROUP LTD.**

**UNAUDITED CONDENSED CONSOLIDATED BALANCE SHEETS**

**(In thousands, except par value)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **July 31,** | |  |  | **January 31,** | |  |
|  |  |  | **2003** |  |  |  | **2003** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **ASSETS** |  |  |  |  |  |  |  |  |
|  | Current assets: |  |  |  |  |  |  |  |  |
|  | Cash and cash equivalents | $ | 208,733 |  | $ | | 125,316 |  |  |
|  | Short-term investments |  | 135,247 |  |  |  | 139,912 |  |  |
|  | Accounts receivable, net of allowances of $2,301 and $2,039 |  | 102,925 |  |  |  | 86,175 |  |  |
|  | Inventories |  | 60,377 |  |  |  | 39,712 |  |  |
|  | Prepaid expenses and other current assets |  | 14,048 |  |  |  | 11,801 |  |  |
|  | Deferred income taxes |  | 8,178 |  |  |  | 8,178 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Total current assets |  | 529,508 |  |  |  | 411,094 |  |  |
|  | Property and equipment, net |  | 71,549 |  |  |  | 69,246 |  |  |
|  | Goodwill |  | 1,414,535 |  |  |  | 1,338,768 |  |  |
|  | Acquired intangible assets |  | 198,566 |  |  |  | 231,875 |  |  |
|  | Other noncurrent assets |  | 40,366 |  |  |  | 49,313 |  |  |
|  |  |  |  |  |  | |  |  |  |
|  | Total assets | $ | 2,254,524 |  | $ | | 2,100,296 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **LIABILITIES AND SHAREHOLDERS’ EQUITY** |  |  |  |  |  |  |  |  |
|  | Current liabilities: |  |  |  |  |  |  |  |  |
|  | Accounts payable | $ | 77,924 |  | $ | | 47,672 |  |  |
|  | Accrued liabilities |  | 40,507 |  |  |  | 15,491 |  |  |
|  | Accrued employee compensation |  | 23,761 |  |  |  | 11,464 |  |  |
|  | Income taxes payable |  | 7,467 |  |  |  | 2,247 |  |  |
|  | Deferred income |  | 12,373 |  |  |  | 12,481 |  |  |
|  | Current portion of capital lease obligations |  | 6,850 |  |  |  | 5,019 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Total current liabilities |  | 168,882 |  |  |  | 94,374 |  |  |
|  | Capital lease obligations |  | 12,491 |  |  |  | 13,755 |  |  |
|  | Other long-term liabilities |  | 43,596 |  |  |  | 42,029 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Total liabilities |  | 224,969 |  |  |  | 150,158 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Commitments and contingencies (Note 6) |  |  |  |  |  |  |  |  |
|  | Shareholders’ equity: |  |  |  |  |  |  |  |  |
|  | Common stock, $0.002 par value; 242,000 shares authorized; 125,704 and 121,260 shares issued |  |  |  |  |  |  |  |  |
|  | and outstanding |  | 251 |  |  |  | 243 |  |  |
|  | Additional paid-in capital |  | 2,744,205 |  |  |  | 2,674,095 |  |  |
|  | Deferred stock-based compensation |  | (9,313) | |  |  | (5,899) | |  |
|  | Accumulated other comprehensive income |  | 922 |  |  |  | 1,988 |  |  |
|  | Accumulated deficit |  | (706,510) | |  |  | (720,289) | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Total shareholders’ equity |  | 2,029,555 |  |  |  | 1,950,138 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Total liabilities and shareholders’ equity | $ | 2,254,524 |  | $ | | 2,100,296 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**See accompanying notes to unaudited condensed consolidated financial statements.**

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**MARVELL TECHNOLOGY GROUP LTD. UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except per share amounts)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Three Months Ended** | | | | | |  |  |  | **Six Months Ended** | | | | |  |
|  |  |  |  |  | **July 31,** | | |  |  |  |  |  | **July 31,** | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **2003** |  |  |  | **2002** |  |  |  | **2003** |  |  |  | **2002** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net revenue | | $ | 192,854 | $ | | | 119,694 |  | $ | | 361,137 | $ | | | 218,494 |  |  |
|  | Operating costs and expenses: | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cost of goods sold (1) | |  | 88,944 |  |  |  | 56,033 |  |  |  | 165,057 |  |  |  | 99,813 |  |  |
|  | Research and development (1) | |  | 52,252 |  |  |  | 33,599 |  |  |  | 98,891 |  |  |  | 64,208 |  |  |
|  | Selling and marketing (1) | |  | 14,783 |  |  |  | 12,321 |  |  |  | 30,246 |  |  |  | 23,333 |  |  |
|  | General and administrative (1) | |  | 4,351 |  |  |  | 3,523 |  |  |  | 7,931 |  |  |  | 7,165 |  |  |
|  | Amortization of stock-based compensation | |  | 1,020 |  |  |  | 2,192 |  |  |  | 1,678 |  |  |  | 4,474 |  |  |
|  | Amortization of acquired intangible assets | |  | 19,560 |  |  |  | 21,323 |  |  |  | 39,008 |  |  |  | 42,646 |  |  |
|  | Facilities consolidation charge | |  | — |  |  |  | — | |  |  | — |  |  |  | 17,799 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Total operating costs and expenses | |  | 180,910 |  |  |  | 128,991 |  |  |  | 342,811 |  |  |  | 259,438 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Operating income (loss) | |  | 11,944 |  |  |  | (9,297) | |  |  | 18,326 |  |  |  | (40,944) | |  |
|  | Interest and other income, net | |  | 1,569 |  |  |  | 1,906 |  |  |  | 2,880 |  |  |  | 4,045 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income (loss) before income taxes | |  | 13,513 |  |  |  | (7,391) | |  |  | 21,206 |  |  |  | (36,899) | |  |
|  | Provision for income taxes | |  | 4,091 |  |  |  | 1,935 |  |  |  | 7,427 |  |  |  | 3,361 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net income (loss) | | $ | 9,422 | $ | | | (9,326) | | $ | | 13,779 | $ | | | (40,260) | |  |
| Net income (loss) per share: | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic | | $ | 0.08 | $ | | | (0.08) | | $ | | 0.11 | $ | | | (0.34) | |  |
|  |  |  |  |  |  | | |  | |  | |  |  | | |  | |  |
|  |  |  |  |  |  | | |  |  |  | |  |  | | |  |  |  |
|  | Diluted | | $ | 0.07 | $ | | | (0.08) | | $ | | 0.10 | $ | | | (0.34) | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Weighted average shares: | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Basic | |  | 123,667 |  |  |  | 118,886 |  |  |  | 122,502 |  |  |  | 118,487 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Diluted | |  | 136,804 |  |  |  | 118,886 |  |  |  | 133,188 |  |  |  | 118,487 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Excludes amortization of stock-based compensation as follows:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cost of goods sold | $ | 50 | $ | 118 | $ | 89 | $ | 163 |  |
| Research and development |  | 465 |  | 1,421 |  | 728 |  | 2,915 |  |
| Selling and marketing |  | 172 |  | 456 |  | 249 |  | 859 |  |
| General and administrative |  | 333 |  | 197 |  | 612 |  | 537 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | $ | 1,020 | $ | 2,192 | $ | 1,678 | $ | 4,474 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**See accompanying notes to unaudited condensed consolidated financial statements.**

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**MARVELL TECHNOLOGY GROUP LTD. UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)**

**Six Months Ended**

**July 31,**



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **2003** |  | **2002** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Cash flows from operating activities:** |  |  |  |  |  |  |  |  |
|  | Net income (loss) | $ | 13,779 |  | $ (40,260) | | | |  |
|  | Adjustments to reconcile net income (loss) to net cash provided by operating activities: |  |  |  |  |  |  |  |  |
|  | Depreciation and amortization |  | 18,303 |  | 8,772 | | |  |  |
|  | Amortization of stock-based compensation |  | 1,678 |  | 4,474 | | |  |  |
|  | Amortization of acquired intangible assets |  | 39,008 |  | 42,646 | | |  |  |
|  | Changes in assets and liabilities, net of acquisitions: |  |  |  |  |  |  |  |  |
|  | Accounts receivable |  | (16,716) | | (26,668) | | | |  |
|  | Inventories |  | (20,665) | | (24,025) | | | |  |
|  | Prepaid expenses and other assets |  | (3,812) | | (3,648) | | | |  |
|  | Accounts payable |  | 28,650 |  | 31,673 | | |  |  |
|  | Accrued liabilities and other |  | 3,283 |  | (2,168) | | | |  |
|  | Accrued employee compensation |  | 10,759 |  | (1,215) | | | |  |
|  | Accrued facility consolidation charge |  | (2,124) | | 15,491 | | |  |  |
|  | Income taxes payable |  | 5,232 |  | 2,175 | | |  |  |
|  | Deferred income |  | (108) | | 4,656 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Net cash provided by operating activities |  | 77,267 |  | 11,903 | | |  |  |
| **Cash flows from investing activities:** | |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Purchases of short-term investments |  | (44,742) | | (34,587) | | | |  |
|  | Sales and maturities of short-term investments |  | 48,329 |  | 28,941 | | |  |  |
|  | Purchases of investments and loan advanced |  | (10,000) | | (10,000) | | | |  |
|  | Cash received from acquisitions, net of acquisition costs |  | 1,220 |  | 1,098 | | |  |  |
|  | Purchases of property and equipment |  | (13,920) | | (16,484) | | | |  |
|  | Purchases of technology licenses |  | (2,917) | |  |  | — | |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Net cash used in investing activities |  | (22,030) | | (31,032) | | | |  |
| **Cash flows from financing activities:** | |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Proceeds from the issuance of common stock, net of repurchases |  | 30,608 |  | 14,274 | | |  |  |
|  | Principal payments on capital lease obligations |  | (2,408) | | (757) | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Net cash provided by financing activities |  | 28,200 |  | 13,517 | | |  |  |
|  | |  |  |  |  | |  |  |  |
| Net increase in cash and cash equivalents | |  | 83,417 |  | (5,612) | | | |  |
|  | Cash and cash equivalents at beginning of period |  | 125,316 |  | 114,483 | | |  |  |
|  | |  |  |  |  | |  |  |  |
| Cash and cash equivalents at end of period | | $ | 208,733 |  | $108,871 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**See accompanying notes to unaudited condensed consolidated financial statements.**

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**MARVELL TECHNOLOGY GROUP LTD. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)**

1. **The Company and its Significant Accounting Policies The Company**

Marvell Technology Group Ltd. (the “Company”), a Bermuda company, was incorporated on January 11, 1995. The Company is a leading global semiconductor provider of complete broadband communications and storage solutions. The Company’s diverse product portfolio includes switching, transceiver, wireless, PC connectivity, gateway, communications controller, and storage solutions that power the entire communications infrastructure, including enterprise, metro, home, and storage networking. On January 21, 2001, the Company acquired Galileo Technology Ltd. (“Galileo”), an Israeli corporation. In January 2003, Galileo’s name was changed to Marvell Semiconductor Israel Ltd. (“MSIL”). MSIL develops high-performance communications internetworking and switching products for the broadband communications market. On June 19, 2002, the Company acquired SysKonnect GmbH (“SysKonnect”), a German corporation. SysKonnect develops and markets client-server products. On June 27, 2003 the Company acquired RADLAN Computer Communications Ltd. (“RADLAN”), an Israeli corporation. RADLAN is a leading provider of embedded networking software.

**Basis of presentation**

The Company’s fiscal year is the 52- or 53-week period ending on the Saturday closest to January 31. In a 52-week year, each fiscal quarter consists of

13 weeks. The additional week in a 53-week year is added to the fourth quarter, making such quarter consist of 14 weeks. Fiscal year 2004 will be comprised of 52 weeks. For presentation purposes only, the financial statements and notes refer to January 31 as the Company’s year-end and April 30, July 31 and October 31 as the Company’s quarter-ends.

The unaudited interim condensed consolidated financial statements have been prepared on the same basis as the annual consolidated financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary to present fairly the Company’s financial position as of July 31, 2003, the results of its operations for the three and six months ended July 31, 2003 and 2002, and its cash flows for the six months ended July 31, 2003 and 2002. These condensed consolidated financial statements and related notes are unaudited and should be read in conjunction with the Company’s audited financial statements and related notes included in the Company’s 2003 Annual Report on Form 10-K. The results of operations for the three and six months ended July 31, 2003 are not necessarily indicative of the results that may be expected for any other interim period or for the full fiscal year.

**Revenue recognition**

The Company recognizes revenue when persuasive evidence of an arrangement exists, delivery has occurred, the price is fixed or determinable and collection is reasonably assured. Under these criteria, product revenue is generally recognized upon shipment of product to customers, net of accruals for estimated sales returns and allowances. However, a portion of the Company’s sales are made through distributors under agreements allowing for price protection and rights of return on product unsold by the distributors. Product revenue on sales made through distributors with rights of return is deferred until the distributors sell the product to end customers. Additionally, collection is not deemed to be “reasonably assured” if customers receive extended payment terms. As a result, revenue on sales to customers with payment terms substantially greater than the Company’s normal payment terms is deferred and is recognized as revenue as the payments become due. Deferred revenue less the related cost of the inventories is reported as deferred income.

The provision for estimated sales returns and allowances on product sales is recorded in the same period the related revenues are recorded. These estimates are based on historical sales returns, analysis of credit memo data and other known factors. Actual returns could differ from these estimates.

The Company also enters into development agreements with some of its customers. Development revenue is recognized under the percentage-of-completion method, with the associated costs included in research and development expense. The Company estimates the percentage-of-completion of its development contracts based on an analysis of actual progress toward completion.

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Revenue from licensed software is recognized when persuasive evidence of an arrangement exists and delivery has occurred, provided that the fee is fixed and determinable and collectibility is probable. Revenue from post-contract customer support and any other future deliverables is deferred and earned over the support period or as contract elements are delivered.

**Available-for-sale investments**

The amortized cost and fair value of available-for-sale investments are presented in the following tables (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Gross** | |  | **Gross** | | |  |  | **Estimated** | |  |
|  |  |  |  | **Amortized** | |  | **Unrealized** | | |  | **Unrealized** | | |  |  | **Fair** | |  |
|  | **As of July 31, 2003** |  |  | **Cost** | |  |  | **Gains** | |  | **Losses** | | |  |  | **Value** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Corporate debt securities | $110,655 | | |  | $1,366 | | |  | $(415) | | | | $ 111,606 | | |  |  |
|  | Federal, State, county and municipal debt securities | 73,147 | | |  | 121 | | |  | (150) | | | | 73,118 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 183,802 | | |  | 1,487 | | |  | (565) | | | | 184,724 | | |  |  |
|  | Less amounts classified as cash equivalents | (49,477) | | | |  |  | — | |  |  | — | | (49,477) | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Short-term investments | $134,325 | | |  | $1,487 | | |  | $(565) | | | | $135,247 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

The contractual maturities of available-for-sale debt securities classified as short-term investments at July 31, 2003 are presented in the following table (in thousands):

**Amortized** **Estimated**

**Cost** **Fair Value**



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Due in one year or less | $ | 92,702 | $ | 93,177 |  |
| Due between one and four years |  | 91,100 |  | 91,547 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | $ | 183,802 | $ | 184,724 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Gross** | |  |  | **Gross** | |  |  | **Estimated** | |  |
|  |  |  |  | **Amortized** | |  | **Unrealized** | | |  | **Unrealized** | | |  |  | **Fair** | |  |
|  | **As of January 31, 2003** |  |  | **Cost** | |  |  | **Gains** | |  |  | **Losses** | |  |  | **Value** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Corporate debt securities | $105,404 | | |  | $1,744 | | |  | $(76) | | | | $107,072 | | |  |  |
|  | Federal, State, county and municipal debt securities | 44,812 | | |  | 297 | | |  |  |  | — | | 45,109 | | |  |  |
|  | Equity securities | 800 | | |  | 36 | | |  |  |  | — | | 836 | | |  |  |
|  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  |
|  |  | 151,016 | | |  | 2,077 | | |  | (76) | | | | 153,017 | | |  |  |
|  | Less amounts classified as cash equivalents | (13,105) | | | |  |  | — | |  |  | — | | (13,105) | | | |  |
|  | |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  |
| Short-term investments | | $137,911 | | |  | $2,077 | | |  | $(76) | | | | $139,912 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Inventories**

Inventories are stated at the lower of cost or market, cost being determined under the first-in, first-out method. Appropriate consideration is given to obsolescence, excessive levels, deterioration and other factors in evaluating net realizable value. The components of inventory are presented in the following table (in thousands):

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **July 31,** | |  | **January 31,** | | |  |
|  |  | **2003** | |  | **2003** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Work-in-process | $34,028 | |  | $21,176 | | |  |  |
|  | Finished goods | 26,349 | |  | 18,536 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | $60,377 | |  | $39,712 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

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**Goodwill and purchased intangible assets**

The changes in the carrying amount of the goodwill and intangible assets are as follows (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **As of July 31, 2003** | | |  |  |  |  |  |  |  |  |  | **As of January 31, 2003** | | | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **Gross** | |  |  |  |  |  |  |  | **Net** | |  |  | **Gross** | |  |  |  |  |  |  | **Net** | |  |
|  |  |  | **Carrying** | |  | **Accumulated** | | |  |  |  | **Carrying** | |  |  | **Carrying** | |  | **Accumulated** | | | |  | **Carrying** | |  |
|  |  |  | **Amount** | |  | **Amortization** | | |  |  |  | **Amount** | |  |  | **Amount** | |  | **Amortization** | | | |  | **Amount** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Purchased technology | $ | 394,354 |  | $(196,079) | | | | $ | | 198,275 | |  | $ | | 388,955 |  | $(157,080) | | | |  | $ | 231,875 |  |  |
|  | Trade name |  | 100 |  | (5) | | | |  |  | 95 | |  |  |  | — | |  |  | — | | |  | — | |  |
|  | Customer contracts and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | related relationships |  | 200 |  | (4) | | | |  |  | 196 | |  |  |  | — | |  |  | — | | |  | — | |  |
| Total identified intangible | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | assets |  | 394,654 |  | (196,088) | | | |  |  | 198,566 | |  |  |  | 388,955 |  | (157,080) | | | |  |  | 231,875 |  |  |
|  | Goodwill |  | 1,762,441 |  | (347,906) | | | |  |  | 1,414,535 | |  |  |  | 1,686,674 |  | (347,906) | | | |  |  | 1,338,768 |  |  |
|  |  |  |  |  |  | |  |  |  | |  |  |  |  | |  |  |  | |  |  |  |  |  |  |  |
|  | Total intangible assets | $ | 2,157,095 |  | $(543,994) | | | | $ | | 1,613,101 | |  | $ | | 2,075,629 |  | $(504,986) | | | |  | $ | 1,570,643 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

The changes in the carrying amount of the goodwill for the six month period ended July 31, 2003 are as follows (in thousands):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | **July 31,** | |  |
|  |  | **2003** | |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Balances as of January 31, 2003 | $1,338,768 | |  |  |
|  | Acquisition | 75,767 | |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Balances as of July 31, 2003 | $1,414,535 | |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Identified intangible assets consist of purchased technology, trade name, and customer contracts and related relationships. Purchased technology and customer contracts and related relationships are amortized on a straight-line basis over their estimated useful lives of five years. Trade name is amortized on a straight-line basis over its estimated useful life of two years. The aggregate amortization expense of identified intangible assets was $19.6 million and $21.3 million in the second quarter of fiscal years 2004 and 2003, respectively. The aggregate amortization expense of identified intangible assets was $39.0 million and $42.6 million for the six months ended July 31, 2003 and 2002, respectively. The estimated total future annual amortization expenses of acquired intangible assets is

$39.5 million for the remaining six months of fiscal year 2004, $79.0 million for fiscal year 2005, $77.4 million for fiscal year 2006, $1.1 million for fiscal years 2007 and 2008, respectively, and $0.5 million for fiscal year 2009.

**Balance sheet components (in thousands)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **July 31,** | |  | **January 31,** | | |  |
|  |  |  | **2003** |  | **2003** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Other noncurrent assets:** |  |  |  |  |  |  |  |  |
|  | Equity investments | $ | 10,249 |  | $19,178 | | |  |  |
|  | Other |  | 30,117 |  | 30,135 | | |  |  |
|  |  |  |  |  |  | |  |  |  |
|  |  | $ | 40,366 |  | $49,313 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  | **July 31,** | |  | **January 31,** | | |  |
|  |  |  | **2003** |  | **2003** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Other long-term liabilities:** |  |  |  |  |  |  |  |  |
|  | Long-term facilities consolidation charge | $ | 9,447 |  | $11,652 | | |  |  |
|  | Income taxes long-term |  | 22,835 |  | 22,835 | | |  |  |
|  | Other |  | 11,314 |  | 7,542 | | |  |  |
|  |  |  |  |  |  | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | $ | 43,596 |  | $42,029 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Warranty accrual**

The Company’s products are generally subject to warranty and it provides as a component of cost of goods sold for the estimated future costs of repair, replacement or customer accommodation upon shipment of the product in the accompanying statements of operations. The warranty accrual is estimated based on historical claims compared to historical revenues and assumes that it will have to replace products subject to a claim. For new products, the Company uses a historical percentage for the appropriate class of product. Changes in the Company’s warranty accrual during the following periods are as follows (in thousands):

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|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Six Months** | | |  |  | **Year** | |  |
|  |  | **Ended** | | |  | **Ended** | | |  |
|  |  | **July 31,** | | |  | **January 31,** | | |  |
|  |  | **2003** | |  | **2003** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Warranty accrual (included in accrued liabilities): |  |  |  |  |  |  |  |  |
|  | Beginning balance | $ 526 | |  | $ 474 | | |  |  |
|  | Charges to cost of goods sold | 710 | |  | 593 | | |  |  |
|  | Payments and other charges | (659) | | | (541) | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Ending balance | $ 577 | |  | $ 526 | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**Net income (loss) per share**

The Company reports both basic net income (loss) per share, which is based upon the weighted average number of common shares outstanding excluding contingently issuable or returnable shares, and diluted net income (loss) per share, which is based on the weighted average number of common shares outstanding and dilutive potential common shares. The computations of basic and diluted net income (loss) per share are presented in the following table (in thousands, except per share amounts):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Three Months Ended** | | | | | | |  |  | **Six Months Ended** | | | | | | |  |
|  |  |  |  |  | **July 31,** | | |  |  |  |  |  |  | **July 31,** | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **2003** |  |  |  |  | **2002** |  |  |  | **2003** |  |  |  |  | **2002** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Numerator: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Net income (loss) | $ | 9,422 |  | $ | | | (9,326) | | $ | | 13,779 |  | $ | | | (40,260) | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Denominator: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Weighted average shares of common stock outstanding |  | 123,824 |  |  |  |  | 119,713 |  |  |  | 122,704 |  |  |  |  | 119,376 |  |  |
|  | Less: unvested common shares subject to repurchase |  | (157) | |  |  |  | (827) | |  |  | (202) | |  |  |  | (889) | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Weighted average shares — basic |  | 123,667 |  |  |  |  | 118,886 |  |  |  | 122,502 |  |  |  |  | 118,487 |  |  |
|  | Effect of dilutive securities- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Unvested common shares subject to repurchase |  | 157 |  |  |  |  | — | |  |  | 202 |  |  |  |  | — | |  |
|  | Warrants |  | 96 |  |  |  |  | — | |  |  | 49 |  |  |  |  | — | |  |
|  | Contingently issuable shares |  | 681 |  |  |  |  | — | |  |  | 340 |  |  |  |  | — | |  |
|  | Common stock options |  | 12,203 |  |  |  |  | — | |  |  | 10,095 |  |  |  |  | — | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Weighted average shares — diluted |  | 136,804 |  |  |  |  | 118,886 |  |  |  | 133,188 |  |  |  |  | 118,487 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basic net income (loss) per share | $ | 0.08 |  | $ | | | (0.08) | | $ | | 0.11 |  | $ | | | (0.34) | |  |
|  | |  |  |  |  | | |  | |  | |  |  |  | | |  | |  |
|  | |  |  |  |  | | |  |  |  | |  |  |  | | |  |  |  |
| Diluted net income (loss) per share | | $ | 0.07 |  | $ | | | (0.08) | | $ | | 0.10 |  | $ | | | (0.34) | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Options to purchase 1,455,188 common shares at a weighted average exercise price of $43.32 have been excluded from the computation of diluted net income per share for the three months ended July 31, 2003 and options to purchase 6,183,881 common shares at a weighted average exercise price of $33.30 have been excluded from the computation of diluted net income per share for the six months ended July 31, 2003, as their exercise prices were greater than the average market price of the common shares for the period. In addition, 511,628 contingent shares relating to the RADLAN acquisition have been excluded from the computation of diluted net income per share for the three and six months ended July 31, 2003 because the contingencies have not been met. Additionally, 826,798 common shares subject to repurchase by the Company and options to purchase 24,808,100 common stock equivalents at a weighted average exercise price of $16.95 per share have been excluded from the computation of diluted net loss per share for the three months ended July 31, 2002, and 888,729 common shares subject to repurchase and options to purchase 24,824,080 common stock equivalents at a weighted average exercise price of $16.97 per share have been excluded from the computation of diluted net loss per share for the six months ended July 31, 2002, as their effect would have been anti-dilutive due to the net loss.

**Comprehensive income (loss)**

The components of comprehensive income (loss), net of tax, are presented in the following table (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Three Months Ended** | | | | | | |  |  |  | **Six Months Ended** | | | | | |  |
|  |  |  |  |  | **July 31,** | | | | |  |  |  |  | **July 31,** | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **2003** | |  | **2002** | | | |  | **2003** | | |  | **2002** | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net income (loss) | $9,422 | |  | $(9,326) | | | | | $13,779 | | |  | $(40,260) | | | | |  |
|  | Other comprehensive income (loss): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Unrealized gains (loss) on available-for-sale |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | investments, net of tax | (989) | | | 1,326 | | | |  | (1,066) | | | | 768 | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Total comprehensive income (loss) $8,433 $(8,000) $12,713 $(39,492)



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Accumulated other comprehensive income (loss), as presented on the accompanying condensed consolidated balance sheets, consists of the unrealized gains and losses on available-for-sale investments, net of tax.

**Stock-based compensation**

The Company’s employee stock based compensation is accounted for in accordance with Accounting Principles Board Opinion No. 25 (“APB 25”), Accounting for Stock Issued to Employees and complies with the disclosure provisions of Statement of Financial Accounting Standards No. 123 (“SFAS 123”), Accounting for Stock-Based Compensation. Expense associated with stock-based compensation is amortized on an accelerated basis over the vesting periods of the individual awards consistent with the method described in Financial Accounting Standards Board Interpretation No. 28 (“FIN 28”). Application of FIN 28 to awards that vest progressively over five years results in amortization of approximately 46% of the compensation in the first 12 months of vesting, 26% of the compensation in the second 12 months of vesting, 15% of the compensation in the third 12 months of vesting, 9% of the compensation in the fourth 12 months of vesting and 4% of the compensation in the fifth 12 months of vesting. The Company accounts for stock issued to non-employees in accordance with the provisions of SFAS 123 and Emerging Issues Task Force Consensus No. 96-18 (“EITF 96-18”), Accounting for Equity Instruments that are Offered to Other Than Employees for Acquiring of in Conjunction with Selling Goods or Services. Under SFAS 123 and EITF 96-18, stock option awards issued to non-employees are accounted for at their fair value using the Black-Scholes valuation method. The fair value of each non-employee stock award is remeasured at each period end until a commitment date is reached, which is generally the vesting date.

In accordance with the requirements of the disclosure-only alternative of SFAS 123, set forth below are pro forma statements of operations data of the Company giving effect to the valuation of stock-based awards to employees using the Black-Scholes option pricing model instead of the guidelines provided by APB 25.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Three Months Ended July 31,** | | | | | |  |  | **Six Months Ended July 31,** | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **2003** |  |  |  | **2002** |  |  |  | **2003** |  |  |  | **2002** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net income (loss): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | As reported | $ | 9,422 |  | $ | | (9,326) | | $ | | 13,779 |  | $ | | (40,260) | |  |
|  | Adjustments: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Stock-based employee compensation expense included in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | reported net loss, net of tax effects |  | 1,020 |  |  |  | 2,192 |  |  |  | 1,678 |  |  |  | 4,474 |  |  |
|  | Stock-based employee compensation expense determined |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | under fair value based method for all awards, net of tax |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | effects |  | (20,159) | |  |  | (20,351) | |  |  | (37,791) | |  |  | (38,899) | |  |
|  |  |  |  |  |  | |  |  |  | |  |  |  | |  |  |  |
|  | Pro forma | $ | (9,717) | | $ | | (27,485) | | $ | | (22,335) | | $ | | (74,685) | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basic net income (loss) per share: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | As reported | $ | 0.08 |  | $ | | (0.08) | | $ | | 0.11 |  | $ | | (0.34) | |  |
|  | Pro forma | $ | (0.08) | | $ | | (0.23) | | $ | | (0.18) | | $ | | (0.63) | |  |
|  | Diluted net income (loss) per share: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | As reported | $ | 0.07 |  | $ | | (0.08) | | $ | | 0.10 |  | $ | | (0.34) | |  |
|  | Pro forma | $ | (0.08) | | $ | | (0.23) | | $ | | (0.18) | | $ | | (0.63) | |  |

**2. Acquisitions**

On June 19, 2002, the Company acquired 100% of the shares of SysKonnect through a share purchase agreement. SysKonnect develops and markets client-server products. The acquisition has been accounted for using the purchase method of accounting, and the operating results of SysKonnect have been included in the Company’s consolidated financial statements from the date of acquisition. The total purchase price of the acquisition was approximately $9.5 million. The purchase price consisted of the issuance of restricted shares and options granted to SysKonnect shareholders to purchase a total of 300,000 shares of the Company’s common stock (fair value of $7.3 million), settlement of a loan receivable of $1.9 million, and acquisition related expenses of approximately $0.3 million.

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| The aggregate purchase price was allocated as follows (in thousands): | |  |  |  |  |
|  |  |  |  |  |  |
| Net tangible assets | $4,061 | |  |  |
|  | Deferred compensation | 5,449 | |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Aggregate purchase price | $9,510 | |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

The amount allocated to deferred stock-based compensation relates to the intrinsic value of the unvested restricted stock and stock options issued. The restricted stock and stock options vest over a period of four years. This deferred stock-based compensation is amortized on an accelerated basis over the vesting period of the individual awards consistent with the method described in FIN28.

On June 27, 2003, the Company completed the acquisition of RADLAN Computer Communications Ltd. (RADLAN), a leading provider of embedded networking software. RADLAN is now a wholly owned subsidiary of the Company. As a result of the acquisition, RADLAN will provide embedded networking software for network infrastructure equipment to the Company and the Company will be able to provide complete hardware and software solutions to its customers while improving its ability to address the enterprise, access, wireless and storage area networking markets. These factors contributed to a purchase price that was in excess of the fair value of the RADLAN net tangible and intangible assets acquired and, as a result, the Company recorded goodwill in connection with this transaction.

The total estimated purchase price of approximately $66.6 million consisted of $24.0 million of shares of common stock and options to purchase common stock issued upon closing, $22.5 million of cash or 1.2 million shares of common stock, depending upon the share price of the Company’s common stock upon a future date defined in the merger agreement, $7.5 million of warrants to purchase 543,000 shares of the Company’s common stock at an exercise price of $18.41 per share, $2.9 million of vested options assumed, the Company’s existing investment in preferred stock of RADLAN of $8.5 million, and direct transaction costs of approximately $1.2 million. The value of the common stock and stock options was determined based on the average market price of the Company’s common stock over a 5-day period around February 6, 2003 (the announcement date), or $18.26 per share. The value of the warrants was determined using the Black-Scholes options pricing model with inputs of 100% for volatility, 5-year expected life, risk-free interest rate of 3% and a market value of $18.26 as described above.

If in the future the Company issues 1.2 million shares of common stock instead of paying $22.5 million in cash, the shares will be valued on the date of issue.

Any difference between the value of the common stock issued and $22.5 million will be recorded as additional goodwill.

In addition, the Company will issue up to an additional 1.0 million shares of common stock to RADLAN shareholders upon resolution of certain contingencies and achievement of certain milestones over the next two years as defined in the merger agreement. The shares, if issued, will represent additional purchase price and will be accounted for as additional goodwill.

The Company has done a preliminary allocation of the purchase price to the assets acquired and liabilities assumed based on the estimated fair values as follows (in thousands):

|  |  |  |  |
| --- | --- | --- | --- |
| Amortizable intangible assets: |  |  |  |
| Purchased technology | $ | 5,400 |  |
| Trade name |  | 100 |  |
| Customer contracts and relationships |  | 200 |  |
|  |  |  |  |
|  |  |  |  |
| Total amortizable intangible assets |  | 5,700 |  |
| Goodwill |  | 75,767 |  |
| Previously licensed technology |  | (2,500) | |
| Net liabilities assumed |  | (12,349) | |
|  |  |  |  |
|  |  |  |  |
| Total purchase price | $ | 66,618 |  |
|  |  |  |  |
|  |  |  |  |

Upon finalization of the allocation of the purchase price, adjustments affecting the statements of operations and balance sheet may occur.

Amortizable intangible assets consists of purchased technology, trade name, and customer related intangibles with useful lives of two to five years. Approximately $75.8 million has been allocated to goodwill, which represents the excess purchase price over the fair value of the net intangible assets acquired, and is not deductible for tax purposes. Goodwill will not be amortized and will be tested for impairment, at least annually.

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The results of operations of RADLAN have been included in the Company’s condensed consolidated statement of operations since the completion of the acquisition on June 27, 2003. The following unaudited pro forma information presents a summary of the results of operations of the Company assuming the acquisition of RADLAN occurred on February 1, 2002 (in thousands, except for per share amounts):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Three Months Ended** | | | | |  |  | **Six Months Ended** | | | | |
|  |  |  | **July 31,** | | |  |  |  |  | **July 31,** | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **2003** |  |  |  | **2002** |  |  | **2003** |  |  |  | **2002** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net revenues | $ | 193,142 | $ | | | 121,001 | $ | | 361,525 | $ | | | 220,821 |
| Net income (loss) | $ | 3,075 | $ | | | (11,129) | $ | | 1,745 | $ | | | (44,609) |
| Basic net income (loss) per share | $ | 0.02 | $ | | | (0.09) | $ | | 0.01 | $ | | | (0.37) |
| Diluted net (loss) per share | $ | 0.02 | $ | | | (0.09) | $ | | 0.01 | $ | | | (0.37) |

Upon closing of the acquisition of RADLAN, the Company effectively granted 165,000 shares of restricted common stock to the employees of RADLAN. The restricted stock was valued on the date of issuance at $5.5 million and vests over a period of five years. Accordingly, the Company recorded deferred stock-based compensation of $5.5 million that will be amortized on an accelerated basis over the vesting period consistent with the method described in FIN28.

**3. Facilities Consolidation Charge**

During fiscal 2003, the Company recorded a total of $19.6 million of charges associated with costs of consolidation of its facilities. These charges included $12.6 million in lease abandonment charges resulting from the consolidation of the Company’s three facilities in the Silicon Valley into one location. The lease abandonment charge includes the remaining lease commitments of these facilities reduced by the estimated sublease income throughout the duration of the lease term. The facilities consolidation charge also includes $6.0 million associated with the write-down of certain property and leasehold improvements related to the abandoned facilities. Additionally, the Company incurred charges of $1.0 million during the quarter ended April 30, 2002 as a result of duplicate lease and other costs associated with the dual occupation of its current and abandoned facilities. During the quarter ended July 31, 2003, the Company subleased the abandoned facilities. Actual sublease income approximated the estimated sublease income. At July 31, 2003, cash payments of $4.7 million, net of sublease income, had been made in connection with this charge. Approximately $13.2 million is accrued for the facilities consolidation charge as of July 31, 2003 of which $3.8 million is the current portion included in accrued liabilities while the long-term portion totaling $9.4 million is payable through 2010, and is included in other long-term liabilities.

A summary of the facilities consolidation charge during the six months ended July 31, 2003 is as follows (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Balance at** | | |  |  |  |  |  |  |  |  |  | **Remaining** | | |  |
|  |  | **January 31,** | | |  | **Net Cash** | | |  | **Non-Cash** | | |  | **Liability at** | | |  |
|  |  | **January 31, 2003** | | |  | **Payments** | | |  | **Non-Cash Charges** | | |  | **July 31, 2003** | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Accrued losses on abandoned leased facilities: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Non-cancelable lease commitments | $10,331 | |  | $(1,524) | | | | $ | | — | | $ | | 8,807 |  |  |
|  | Property and leasehold improvements | 5,039 | |  |  |  | — | |  |  | (601) | |  |  | 4,438 |  |  |
|  |  |  |  |  |  | |  |  |  | |  |  |  | |  |  |  |
|  |  | $15,370 | |  | $(1,524) | | | | $ | | (601) | | $ | | 13,245 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**4. Net Revenue**

The following table presents net revenue for groups of similar products (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Three Months Ended** | | | | | |  |  | **Six Months Ended** | | | | | |
|  |  |  | **July 31,** | | |  |  |  |  |  | **July 31,** | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **2003** | |  |  |  | **2002** |  | **2003** | | | **2002** | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage products | $105,658 | | $ | | | 68,198 |  | $196,485 | | | $131,966 | | | |  |
| Communications products | 87,196 | |  |  |  | 51,496 |  | 164,652 | | | 86,528 | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $192,854 | | $ | | | 119,694 |  | $361,137 | | | $218,494 | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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**5. Recent Accounting Pronouncements**

In January 2003, the FASB issued FASB Interpretation No. 46 (“FIN 46”), “Consolidation of Variable Interest Entities, an Interpretation of ARB No. 51.” FIN 46 requires certain variable interest entities to be consolidated by the primary beneficiary of the entity if the equity investors in the entity do not have the characteristics of a controlling financial interest or do not have sufficient equity at risk for the entity to finance its activities without additional subordinated financial support from other parties. FIN 46 is effective for all new variable interest entities created or acquired after January 31, 2003. For variable interest entities created or acquired prior to February 1, 2003, the provisions of FIN 46 must be applied for the first interim or annual period beginning after June 15, 2003. The Company is currently evaluating the impact of the adoption of FIN 46 on its financial position or results of operations. It is reasonably possible that the Company is a primary beneficiary of or holds a significant variable interest in a variable interest entity. The Company has a 46% equity interest in a company that conducts research and development primarily on the Company’s behalf. The Company’s maximum exposure to loss as a result of its investment with the potential variable interest entity is its investment of $3.0 million, as the Company is not obligated to provide any additional financing.

In May 2003, the FASB issued SFAS No. 150, “Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity.” SFAS No. 150 establishes standards for how an issuer classifies and measures certain financial instruments with characteristics of both liabilities and equity. SFAS No. 150 requires that an issuer classify a financial instrument that is within its scope as a liability (or an asset in some circumstances). Many of those instruments were previously classified as equity. SFAS No. 150 is effective for financial instruments entered into or modified after May 31, 2003, and otherwise is effective at the beginning of the first fiscal period beginning after June 15, 2003. SFAS No. 150 is to be implemented by reporting the cumulative effect of a change in an accounting principle for financial instruments created before the issuance date of SFAS No. 150 and still existing at the beginning of the interim period of adoption. Restatement is not permitted. The Company believes that the adoption of this standard will not have a material impact on its consolidated financial statements.

1. **Commitments and Contingencies *Purchase Commitments***

The Company’s manufacturing relationships with its foundries allow for the cancellation of all outstanding purchase orders, but require repayment of all expenses incurred through the date of cancellation. As of July 31, 2003, foundries had incurred approximately $72.4 million of manufacturing expenses on the Company’s outstanding purchase orders.

***Contingencies***

On July 31, 2001, a putative class action suit was filed against two investment banks that participated in the underwriting of the Company’s initial public offering, or IPO, on June 29, 2000. That lawsuit, which did not name the Company or any of its officers or directors as defendants, was filed in the United States District Court for the Southern District of New York. Plaintiffs allege that the underwriters received “excessive” and undisclosed commissions and entered into unlawful “tie-in” agreements with certain of their clients in violation of Section 10(b) of the Securities Exchange Act of 1934. Thereafter, on September 5, 2001, a second putative class action was filed in the Southern District of New York relating to the Company’s IPO. In this second action, plaintiffs named three underwriters as defendants and also named as defendants the Company and two of its officers, one of whom is also a director. Relying on many of the same allegations contained in the initial complaint in which the Company was not named as a defendant, plaintiffs allege that the defendants violated various provisions of the Securities Act of 1933 and the Securities Exchange Act of 1934. In both actions, plaintiffs seek, among other items, unspecified damages, pre-judgment interest and reimbursement of attorneys’ and experts’ fees. These two actions relating to the Company’s IPO have been consolidated with hundreds of other lawsuits filed by plaintiffs against approximately 55 underwriters and approximately 300 issuers across the United States. A Consolidated Amended Class Action Complaint against the Company and its two officers was filed on April 19, 2002. Subsequently, defendants in the consolidated proceedings moved to dismiss the actions. In February 2003, the trial Court issued its ruling on the motions, granting the motions in part, and denying them in part. Thus, the cases may proceed against the underwriters and the Company as to alleged violations of section 11 of the Securities Act of 1933 and section 10(b) of the Securities Exchange Act of 1934. Claims against the individual officers have been voluntarily dismissed without prejudice by agreement with plaintiffs. The Company believes that the claims asserted are without merit and intends to defend these claims vigorously. Based on currently available information, the Company does not believe that the ultimate disposition of the lawsuit will have a material adverse impact on its business or financial condition.

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On September 12, 2001, Jasmine Networks, Inc. (“Jasmine”) filed a lawsuit in the Santa Clara County Superior Court asserting claims against Company personnel and the Company for improperly obtaining and using information and technologies during the course of the negotiations with Company personnel regarding the potential acquisition of Jasmine by the Company. The lawsuit claims that Company officers improperly obtained and used such information and technologies after the Company signed a non-disclosure agreement with Jasmine. The Company believes the claims asserted against its officers and it are without merit and intends to defend all claims vigorously. Based on currently available information, the Company does not believe that the ultimate disposition of this lawsuit will have a material adverse impact on its business or financial condition.

The Company is also party to other claims and litigation proceedings arising in the normal course of business. Although the legal responsibility and financial impact with respect to such claims and litigation cannot currently be ascertained, the Company does not believe that these matters will result in the payment of monetary damages, net of any applicable insurance proceeds, that, in the aggregate, would be material in relation to the Company’s consolidated financial position or results of operations. There can be no assurance that these matters will be resolved without costly litigation, in a manner that is not adverse to the Company’s financial position, results of operations or cash flows, or without requiring royalty payments in the future which may adversely impact gross margins.

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**Item 2. *Management’s Discussion and Analysis of Financial Condition and Results of Operations***

*This Form 10-Q contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934 and Section 27A of the Securities Act of 1933. These forward-looking statements include, but are not limited to, statements regarding our expectations as to growth in revenue from storage products and communications products and reasons for such expectations, sources of revenue, our expectations as to research and development, sales and marketing and general and administrative expense, potential fluctuations in our gross margin, the impact, if any, of legal proceedings, customer concentration and expected revenue concentration from Asia, working capital needs, accounts receivable, inventory, the rate of new orders, adequacy of capital resources, funding of capital requirements, factors impacting our capital requirements, liquidity, expected impact of our contractual obligations, the impact of the adoption of accounting pronouncements, future acquisitions, strategic alliances or joint ventures, sources of competition, future design features and uses of our current and future products, strategic relationships with customers, the need for new and upgraded operational and financial systems, procedures and controls, reasons for decreases in gross profits, and payment of income tax in foreign jurisdictions. Forward-looking statements involve a number of risks and uncertainties, including those identified in the section of this Form 10-Q titled “Additional Factors That May Affect Future Results,” which could cause actual results to differ from those discussed in the forward-looking statements. Forward-looking statements in this Form 10-Q are identified by words such as “believes,” “expects,” “anticipates,” “intends,” “estimates,” “should,” “will,” “may” and similar expressions. In addition, any statements which refer to expectations, projections or other characterizations of future events or circumstances are forward-looking statements. We undertake no obligation to release publicly the results of any revisions to these forward-looking statements that could occur after the filing of this Form 10-Q. You are urged to review carefully our various disclosures in this Form 10-Q and our other reports filed with the SEC, including our 2003 Annual Report on Form 10-K, that attempt to advise you of the risks and factors that may affect our business.*

**Overview**

We are a leading global semiconductor provider of complete broadband communications and storage solutions. Our diverse product portfolio includes switching, transceiver, wireless PC connectivity, gateways, communications controller, and storage solutions that power the entire communications infrastructure, including enterprise, metro, home, and storage networking. We were founded in 1995. We are a fabless integrated circuit company, which means that we rely on independent, third-party contractors to perform manufacturing, assembly and test functions. This approach allows us to focus on designing, developing and marketing our products and significantly reduces the amount of capital we need to invest in manufacturing products. In January 2001, we acquired Galileo Technology Ltd. (now Marvell Semiconductor Israel Ltd, or MSIL) in a stock-for-stock transaction for aggregate consideration of approximately $2.5 billion. MSIL developed high-performance internetworking and switching products for the broadband communications market. The acquisition was accounted for using the purchase method of accounting, and the operating results of MSIL have been included in our consolidated financial statements from the date of acquisition. In June 2003, we acquired RADLAN Computer Communications Ltd., or RADLAN, in a transaction for aggregate consideration of approximately $66.6 million consisting of a combination of cash, warrants, common stock and options. RADLAN is a leading provider of embedded networking software. The acquisition was accounted for using the purchase method of accounting, and the operating results of RADLAN have been included in our consolidated financial statements from the date of acquisition.

In the communications market, we offer transceiver products, switching products, internetworking products and wireless local area network products. Our primary customers for our communications products are manufacturers of high speed networking equipment.

In the storage market, our products include read channel devices, SOCs and preamplifiers. Our customers for our storage products are manufacturers of hard disk drives for the enterprise, desktop and mobile computer markets and the emerging consumer applications market. The storage market is highly competitive and is dominated by a small number of large companies. These companies have historically experienced marginal profit levels from sales of their storage products and are under enormous pricing pressure from their customers, which they typically pass through to their integrated circuit suppliers.

Historically, a relatively small number of customers have accounted for a significant portion of our revenue. For the six months ended July 31, 2003, approximately 46% of our net revenue was derived from sales to three significant customers, each of whom individually accounted for 10% or more of our net revenue during this period. We expect to continue to experience significant customer concentration in future periods. In addition, a significant portion of our sales is made to customers located outside of the United States, primarily in Asia. Sales to customers in Asia represented approximately 89% of our net revenue for the six months ended July 31, 2003. Because many manufacturers and manufacturing subcontractors of communications and storage devices are

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located in Asia, we expect that a significant portion of our revenue will continue to be represented by sales to customers in that region. Substantially all of our sales to date have been denominated in United States dollars.

Our sales have historically been made on the basis of purchase orders rather than long-term agreements. In addition, the sales cycle for our products is long, which may cause us to experience a delay between the time we incur expenses and the time revenue is generated from these expenditures. We expect to increase our research and development, selling and marketing, and general and administrative expenditures as we seek to expand our operations. We anticipate that the rate of new orders may vary significantly from quarter to quarter. Consequently, if anticipated sales and shipments in any quarter do not occur when expected, expenses and inventory levels could be disproportionately high, and our operating results for that quarter and future quarters may be adversely affected.

Our fiscal year is the 52- or 53-week period ending on the Saturday closest to January 31. In a 52-week year, each fiscal quarter consists of 13 weeks. The additional week in a 53-week year is added to the fourth quarter, making such quarter consist of 14 weeks. Fiscal year 2004 will be comprised of 52 weeks. For presentation purposes, our financial statements and notes and this “Management’s Discussion and Analysis of Financial Condition and Results of Operations” refer to January 31 as our year-end and April 30, July 31 and October 31 as our quarter-ends.

**Critical Accounting Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates, and such differences could affect the results of operations reported in future periods. For a description of our critical accounting policies and estimates, please refer to the “Critical Accounting Estimates” section of our Management’s Discussion and Analysis of Financial Condition and Results of Operations contained in our Annual Report on Form 10-K for the year ended January 31, 2003, as filed with the Securities Exchange Commission. There have been no material changes in any of our accounting policies since January 31, 2003.

**Results of Operations**

The following table sets forth information derived from our unaudited condensed consolidated statements of operations expressed as a percentage of net revenue:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Three Months Ended** | | | | | | |  |  | **Six Months Ended** | | | | | | |  |
|  |  |  |  |  |  | **July 31,** | | | | |  |  |  |  | **July 31,** | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **2003** | |  | **2002** | | | |  | **2003** | | |  | **2002** | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Net revenue | 100.0% | | | 100.0% | | | | | 100.0% | | | | 100.0% | | | | |  |
|  |  | Operating costs and expenses: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Cost of goods sold\* | 46.1 | |  | 46.8 | | | |  | 45.7 | | |  | 45.7 | | | |  |  |
|  |  | Research and development\* | 27.1 | |  | 28.1 | | | |  | 27.4 | | |  | 29.4 | | | |  |  |
|  |  | Selling and marketing\* | 7.7 | |  | 10.3 | | | |  | 8.3 | | |  | 10.7 | | | |  |  |
|  |  | General and administrative\* | 2.3 | |  | 3.0 | | | |  | 2.2 | | |  | 3.3 | | | |  |  |
|  |  | Amortization of stock-based compensation | 0.5 | |  | 1.8 | | | |  | 0.5 | | |  | 2.1 | | | |  |  |
|  |  | Amortization of acquired intangible assets | 10.1 | |  | 17.8 | | | |  | 10.8 | | |  | 19.5 | | | |  |  |
|  |  | Facilities consolidation charge |  | — | |  |  |  | — | |  |  | — | | 8.1 | | | |  |  |
|  |  |  |  |  |  |  | | |  |  |  | |  |  |  | | |  |  |  |
|  |  | Total operating costs and expenses | 93.8 | |  | 107.8 | | | |  | 94.9 | | |  | 118.8 | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Operating income (loss) | 6.2 | |  | (7.8) | | | | | 5.1 | | |  | (18.8) | | | | |  |
|  |  | Interest and other income, net | 0.8 | |  | 1.6 | | | |  | 0.8 | | |  | 1.9 | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Income (loss) before income taxes | 7.0 | |  | (6.2) | | | | | 5.9 | | |  | (16.9) | | | | |  |
|  |  | Provision (benefit) for income taxes | 2.1 | |  | (1.6) | | | | | 2.1 | | |  | (1.5) | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Net income (loss) | 4.9% | | | (7.8)% | | | | | 3.8% | | | | (18.4)% | | | | |  |
| \* | Excludes stock-based compensation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Three and Six Months Ended July 31, 2003 and 2002**

***Net Revenue.*** Net revenue consists primarily of product revenue from sales of our semiconductor devices, and to a much lesser extent, development revenue

derived from development contracts with our customers. Net revenue was $192.9 million for the three months ended July 31, 2003 compared to $119.7 million

for the three months ended July 31, 2002. Net revenue was $361.1 million for the six months ended July 31, 2003 compared to $218.5 million for the six months

ended July 31, 2002. The increases in net revenue reflect a significant increase in volume shipments of our storage and Gigabit Ethernet products during the three

months and six months ended July 31, 2003, primarily due to increased acceptance of our SOC storage products, particularly in the mobile computer market,

continued adoption of Gigabit Ethernet products as a replacement for Fast Ethernet products, and initial production volume shipments of our wireless LAN

products. Revenue from storage products totaled $105.7 million in the second quarter of fiscal 2004 compared to $68.2 million in the second quarter of fiscal

2003 and totaled $196.5 million in the first six months of fiscal 2004 compared to $132.0 million in the first six months of fiscal year 2003. Revenue from

communications products was $87.2 million in the second quarter of fiscal 2004 compared to $51.5 million in the second quarter of fiscal 2003 and totaled

$164.6 million in the first six months of fiscal 2004 compared to $86.5 million in the first six months of fiscal 2003. Revenue derived from development contracts

decreased in absolute dollars during the second quarter of fiscal 2004 compared to the second quarter of fiscal 2003, and represented less than 10% of net revenue

for each period. We expect that revenue from storage products for fiscal 2004 will increase from the level of revenue from storage products we reported in fiscal

2003 due primarily to increases in shipments of our storage SOCs, which have been widely adopted by the mobile computer sector and which we expect will

continue to be adopted by the desktop computer sector during this fiscal year. In addition, we expect growth in revenue from communications products in fiscal

2004 compared to fiscal 2003 primarily due to increases in shipments of our Gigabit Ethernet products, which we expect will continue to be adopted as the

replacement for Fast Ethernet products as well as new revenue opportunities for our wireless LAN products.

***Cost of Goods Sold.*** Cost of goods sold consists primarily of the costs of manufacturing, assembly and test of integrated circuit devices and related overheadcosts, and compensation and associated costs relating to manufacturing support, logistics and quality assurance personnel. Gross margin, which is calculated as net revenue less cost of goods sold, as a percentage of net revenue, increased to 53.9% in the three months ended July 31, 2003 from 53.2% in the three months ended July 31, 2002. Gross margin remained unchanged at 54.3% for the six months ended July 31, 2003 and July 31, 2002. The increase in gross margin in the second quarter of fiscal 2004 compared to the second quarter of fiscal 2003 was primarily due to a product mix change which included lower product costs on production ramps of large volume desktop computer products and storage SOCs. The costs associated with contracted development work are included in research and development expense. Our gross margins are primarily driven by product mix; however, our margins may also fluctuate in future periods due to, among other things, increased pricing pressures from our customers and competitors, and changes in the amount of development revenue recognized.

***Research and Development.*** Research and development expense consists primarily of compensation and associated costs relating to development personnel,prototype costs, depreciation and amortization expense, and allocated occupancy costs for these operations. Research and development expense was

$52.3 million, or 27.1% of net revenue, for the three months ended July 31, 2003 compared to $33.6 million, or 28.1% of net revenue, for the three months ended July 31, 2002. Research and development expense was $98.9 million, or 27.4% of net revenue, for the six months ended July 31, 2003 compared to $64.2 million, or 29.4% of net revenue, for the six months ended July 31, 2002. The increase in research and development expense in absolute dollars in the second quarter of fiscal 2004 compared to the second quarter of fiscal 2003 was primarily due to the hiring of additional development personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $7.3 million, increased costs of $4.5 million for prototype and related product tape-out costs for new product initiatives, increased depreciation and amortization expense of $2.0 million arising from purchases of property, equipment and technology licenses, increased costs of $1.0 million for evaluation boards and engineering supplies and other allocated expenses of $2.1 million related to our expanding operations. The increase in absolute dollars in the first six months of fiscal 2004 as compared to the first six months of fiscal 2003 was primarily due to the hiring of additional development personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $13.4 million, increased costs of $9.1 million for prototype and related product tape-out costs for new product initiatives, increased depreciation and amortization expense of $4.6 million arising from purchases of property, equipment and technology licenses, increased costs of

$1.8 million for evaluation boards and engineering supplies and other allocated expenses of $3.2 million related to our expanding operations. We expect that research and development expense will increase in absolute dollars in future periods as we develop new products, migrate to lower process geometries, expand into new markets and technologies, and hire additional personnel.

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***Selling and Marketing.*** Selling and marketing expense consists primarily of compensation and associated costs relating to sales and marketing personnel,sales commissions, promotional and other marketing expenses, and allocated occupancy costs for these operations. Selling and marketing expense was

$14.8 million, or 7.7% of net revenue, for the three months ended July 31, 2003 compared to $12.3 million, or 10.3% of net revenue, for the three months ended July 31, 2002. Selling and marketing expense was $30.2 million, or 8.3% of net revenue, for the six months ended July 31, 2003 compared to $23.3 million, or 10.7% of net revenue, for the six months ended July 31, 2002. The increase in selling and marketing expense in absolute dollars in the second quarter of fiscal 2003 compared to the second quarter of fiscal 2002 was primarily due to the hiring of additional sales and marketing personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $2.0 million and increased facility and allocated costs of $0.7 million related to our expanding operations. The increase in selling and marketing expense in absolute dollars in the six months ended July 31, 2003 compared to the six months ended July 31, 2002 was primarily due to the hiring of additional sales and marketing personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $4.1 million, increased other costs of $1.7 million related to expanding our sales and marketing related activities as we broaden our customer and product base and increased facility and allocated costs of $1.0 million related to our expanding operations. We expect that selling and marketing expense will increase in absolute dollars in future periods as we hire additional sales and marketing personnel and expand our sales and marketing efforts in emerging product markets such as wireless and consumer applications.

***General and Administrative.*** General and administrative expense consists primarily of compensation and associated costs relating to general andadministrative personnel, fees for professional services and allocated occupancy costs for these operations. General and administrative expense was $4.4 million, or 2.3% of net revenue, for the three months ended July 31, 2003 compared to $3.5 million, or 3.0% of net revenue, for the three months ended July 31, 2002. General and administrative expense was $7.9 million, or 2.2% of net revenue, for the six months ended July 31, 2003 compared to $7.2 million, or 3.3% of net revenue for the six months ended July 31, 2002. The increase in absolute dollars in general administrative expense in the second quarter of fiscal 2004 compared the second quarter of fiscal 2003 is primarily due to the hiring of additional general and administrative personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $0.5 million. The increase in absolute dollars in general and administrative expense in the first six months of fiscal 2004 as compared to the first six months of fiscal 2003 was primarily related to the hiring of additional general and administrative personnel, including personnel related to our acquisitions of SysKonnect and RADLAN, which resulted in an increase in salary and related costs of $1.2 million partially offset by a decrease in professional fees of $0.8 million. We expect that general and administrative expense will increase in absolute dollars in future periods due to additional personnel to support expansion of our operations and increased professional fees.

***Amortization of Stock-Based Compensation.*** We have recorded deferred stock-based compensation in connection with the grant of stock options to ouremployees and directors prior to our initial public offering of common stock, in connection with the assumption of stock options as a result of our acquisition of MSIL, in connection with the grant of stock options as a result of our acquisition of SysKonnect and in connection with the effective grant of restricted stock to RADLAN employees upon the close of the acquisition. Deferred stock-based compensation is being amortized using an accelerated method over the remaining option vesting period. Amortization of stock-based compensation was $1.0 million, or 0.5% of net revenue, for the three months ended July 31, 2003 compared to $2.2 million, or 1.8% of net revenue, for the three months ended July 31, 2002. Amortization of stock-based compensation was $1.7 million, or 0.5% of net revenue, for the six months ended July 31, 2003 compared to $4.5 million, or 2.1% of net revenue for the six months ended July 31, 2002. The decrease in amortization expense in both absolute dollars and percentage of net revenue in the second quarter and first six months of fiscal 2004 compared to the second quarter and first six months of fiscal 2003 primarily resulted from a reduced balance of deferred stock-based compensation being amortized in the second quarter and first six months of fiscal 2004 compared to the second quarter and first six months of fiscal 2003.

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***Amortization of Acquired Intangible Assets.*** In connection with the acquisition of MSIL in the fourth quarter of fiscal 2001, we recorded $1.7 billion ofgoodwill and $434.7 million of acquired intangible assets. Acquired intangible assets were being amortized over its estimated economic life of five to seven years. In January 2003, we decided to no longer use the Galileo trade name in selling and marketing activities going forward. As a result, we wrote-off the remaining $22.4 million net book value of the trade name in the fourth quarter of fiscal 2003. In connection with the acquisition of RADLAN, we recorded $75.8 million of goodwill and $5.7 million of acquired intangible assets. The acquired intangibles from the RADLAN acquisition will be amortized over its estimated economic lives of two to five years. Acquired intangible asset amortization expense was $19.6 million, or 10.1% of net revenue, for the three months ended July 31, 2003 compared to $21.3 million, or 17.8% of net revenue, for the three months ended July 31, 2002. Acquired intangible asset amortization was $39.0 million, or 10.8% of net revenue, for the six months ended July 31, 2003 compared to $42.6 million, or 19.5% of net revenue, for the six months ended July 31, 2002. The decrease in acquired intangible asset amortization expense in both absolute dollars and as a percentage of net revenue in the second quarter of fiscal 2004 and six months ended July 31, 2003 compared to second quarter of fiscal 2003 and six months ended July 31, 2002 was primarily due to the write-off of the Galileo trade name in the fourth quarter of fiscal 2003 which resulted in lower amortization for the second quarter of fiscal 2004 and six months ended July 31, 2003 compared to second quarter of fiscal 2003 and six months ended July 31, 2002.

***Facilities Consolidation Charge.*** During the first quarter of fiscal 2003, we recorded a $17.8 million charge associated with costs of consolidation of ourfacilities. This charge included $10.8 million in lease abandonment charges relating to the consolidation of our three facilities in the Silicon Valley into one location. This charge includes the remaining lease commitments of these facilities reduced by the estimated sublease income throughout the duration of the lease term. Facilities consolidation charge also includes $6.0 million consisting of the write-down of certain property and leasehold improvements associated with the abandoned facilities. We also incurred charges of $1.0 million as a result of duplicate lease and other costs associated with the dual occupation of our current and abandoned facilities. We recorded an additional $1.8 million charge in fiscal 2003 associated with the consolidation of our facilities due to a decline in the real estate market in Silicon Valley. During the quarter ended July 31, 2003, we obtained subleases for the abandoned facilities. Actual sublease income approximated the estimated sublease income. At July 31, 2003, cash payments of $4.7 million, net of sublease income had been made in connection with this charge, and $13.2 million had been accrued and is payable through 2010.

***Interest and Other Income, Net*.**Interest and other income, net consists primarily of interest earned on cash, cash equivalents and short-term investmentbalances, offset by interest paid on capital lease obligations. Interest and other income, net was $1.6 million for the three months ended July 31, 2003 compared to $1.9 million for the three months ended July 31, 2002. Interest and other income, net was $2.9 million for the six months ended July 31, 2003 compared to

$4.0 million for the six months ended July 31, 2002. The decrease in interest and other income, net in the second quarter of fiscal 2004 compared to the second quarter of fiscal 2003 was primarily due to a loss of $0.2 million on an equity method investment and an overall decline in interest rates on comparable invested cash balances in the second quarter of fiscal 2004. The decrease in interest and other income, net for the six months of fiscal 2004 compared to the first six months of fiscal 2003 is primarily due to a loss of $0.4 million on an equity method investment and an overall decline in interest rates on comparable invested cash balances in the first six months of fiscal 2004.

***Provision for Income Taxes.*** Our effective tax rate was 30.3% and 35.0% for the three and six months ended July 31, 2003, respectively, compared to (26.2)%and (9.1)% for the three and six months ended July 31, 2002, respectively. Our effective rates for the second quarters and first six months of fiscal 2004 and 2003 were affected by stock-based compensation expense as well as non-deductible expenses relating to our acquisitions of MSIL in the fourth quarter of fiscal 2001 and RADLAN in the second quarter of fiscal 2004, which were both recorded using purchase accounting.

**Liquidity and Capital Resources**

Our principal source of liquidity as of July 31, 2003 consisted of $344.0 million of cash, cash equivalents and short-term investments. We raised net proceeds of $94.0 million through our initial public offering in June 2000. In addition, we received $70.0 million of cash and cash equivalents and $39.9 million of short-term investments, before acquisition costs, as a result of our acquisition of MSIL in January 2001.

***Net Cash Provided by Operating Activities***

Net cash provided by operating activities was $77.3 million for the six months ended July 31, 2003 compared to $11.9 million for the six months ended July 31, 2002. The cash inflow from operations in the first six months of fiscal 2004 was primarily a result of our generation of income during the period (excluding the impact of non-cash charges) and changes in working capital. Non-cash

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charges in the first six months of fiscal 2004 included $39.0 million related to amortization of acquired intangible assets, $18.3 million of depreciation and amortization expense, and $1.7 million of amortization of stock-based compensation. Significant working capital changes contributing to positive cash inflow in the first six months of fiscal 2004 included an increase of $28.7 million in accounts payable resulting primarily from amounts due to our suppliers related to increased inventory purchases during the first six months of fiscal 2004, an increase of $10.8 million in accrued employee compensation primarily as the result of increased withholding taxes from the exercise of stock options by employees, and an increase of $5.2 million in income tax payable resulting from net income in the first six months of fiscal 2004 as compared to a net loss for the first six months of fiscal 2003. Significant working capital changes offsetting positive cash flow in the first six months of fiscal 2004 included a $20.7 million increase in inventory primarily as a result of increased volumes of sales and associated purchases of inventory required to meet demand. Accounts receivable increased by $16.7 million primarily due to higher net revenue in the first six months of fiscal 2004 as compared to the first six months of fiscal 2003. Prepaids and other assets decreased by $3.8 million due primarily to higher amortization of prepaid and other assets in the first six months of fiscal 2004 as compared to the first six months of fiscal 2003.

Net cash provided by operating activities was $11.9 million for the six months ended July 31, 2002. The cash inflow from operations in the first six months of fiscal 2003 was primarily a result of generation of income during the period (excluding the impact of non-cash charges) and changes in working capital. Non-cash charges in the first six months of fiscal 2003 included $42.6 million related to amortization of acquired intangible assets, $8.8 million of depreciation and amortization expense, and $4.5 million of amortization of stock-based compensation. Significant working capital changes contributing to positive cash inflow in the first six months of fiscal 2003 included an increase of $15.5 million relating to an accrued facilities consolidation charge recorded as a result of the consolidation of our facilities, an increase of $31.7 million in accounts payable resulting primarily from increased inventory purchases, and an increase in deferred income of $4.7 million due to an increase in inventory levels at our distributors. Partially offsetting these positive cash flows in the first six months of fiscal 2003 was an increase of $26.7 million in accounts receivable primarily due to increases in our total net revenue in the first six months of fiscal 2003 as compared to the first six months of fiscal 2002. In addition, inventory increased $24.0 million due to the increased volume of sales and related purchases of inventory in the first six months of fiscal 2003 as compared to the first six months of fiscal 2002.

Due to the nature of our business, we experience working capital needs for accounts receivable and inventory. We typically bill customers on an open account basis with net thirty to sixty day payment terms. If our sales levels continue to increase as they have in all fiscal years, it is likely that our levels of accounts receivable will also increase. Our levels of accounts receivable would also increase if customers delayed their payments or if we offered extended payment terms to our customers. Additionally, in order to maintain an adequate supply of product for our customers, we must carry a certain level of inventory. Our inventory level may vary based primarily upon orders received from our customers and our forecast of demand for these products, as well as the initial production ramp for significant design wins. Other considerations in determining inventory levels may include the product life cycle stage of our products and competitive situations in the marketplace. Such considerations are balanced against risk of obsolescence or potentially excess inventory levels.

***Net Cash Used in Investing Activities***

Net cash used in investing activities was $22.0 million for the six months ended July 31, 2003 and $31.0 million for the six months ended July 31, 2002. The net cash used in investing activities in the first six months of fiscal 2004 was due to purchases of property and equipment of $13.9 million, purchases of short-term investments of $44.7 million, and loan advances of $10.0 million, partially offset by the proceeds from the sales and maturities of short-term investments of $48.3 million. The net cash used in investing activities in the first six months of fiscal 2003 was due to purchases of property and equipment of $16.5 million, purchases of short-term investments of $34.6 million, and purchases of investments of $10.0 million, partially offset by the proceeds from the sales and maturities of short-term investments of $28.9 million.

***Net Cash Provided by Financing Activities***

Net cash provided by financing activities was $28.2 million for the six months ended July 31, 2003 and $13.5 million for the six months ended July 31, 2002. In the first six months of fiscal 2004 and 2003, net cash provided by financing activities was attributable to proceeds from the issuance of common stock under our stock option plans, partially offset by principal payments on capital lease obligations.

Our relationships with the foundries we utilize allow us to cancel all outstanding purchase orders, provided we pay the foundries for all expenses they have incurred in connection with our purchase orders through the date of cancellation. As of July 31, 2003, our foundries had incurred approximately $72.4 million of manufacturing expenses on our outstanding purchase orders.

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In October 2001, we entered into a lease agreement with Yahoo! Inc. to lease a building in California consisting of approximately 213,000 square feet. The lease commenced on January 1, 2002 and continues through March 16, 2006. Total rent payments over the term of the lease will be approximately $19.4 million. In February 2002, we consolidated our three existing facilities in California into this new building. The lease on one of our former facilities expired in February 2002, but we have ongoing, non-cancelable leases for the two other facilities. During fiscal 2003, we recorded a $19.6 million charge associated with costs of consolidation of our facilities. This charge includes the remaining lease commitments of these facilities reduced by the estimated sublease income throughout the duration of the lease term. During the quarter ended July 31, 2003, we obtained subleases for the abandoned facilities. Actual sublease income approximated the estimated sublease income, but is less than our actual lease commitments, resulting in negative cash flow over the remaining term of the subleases of approximately $8.2 million. At July 31, 2003, cash payments of $4.7 million, net of sublease income had been made in connection with this charge. Approximately $13.2 million is accrued for the facilities consolidation charge as of July 31, 2003 of which $3.8 million is the current portion while the long-term portion totaling $9.4 million is payable through 2010.

On June 27, 2003, we completed the acquisition of RADLAN Computer Communications Ltd. Pursuant to the terms of the share purchase agreement, we will issue a combination of cash, shares, warrants and common stock options to purchase our common stock in exchange for the remaining outstanding shares of RADLAN capital stock and employee stock options. Upon the closing, we issued a total of 1.2 million shares of common stock and 157,000 options to purchase shares of our common stock. In addition, we issued warrants to purchase 543,000 shares of our common stock at an exercise price of $18.41 per share. Subsequent to this exchange with the RADLAN shareholders and employees, we will also issue either an additional 1.2 million shares of common stock or $22.5 million to RADLAN shareholders, depending upon the share price of Marvell’s common stock upon a future date as defined in the merger agreement. Additionally, 1.0 million shares of our common stock is reserved for the future issuance over a two-year period to RADLAN shareholders upon the resolution of certain contingencies involving the achievement of milestones as defined in the merger agreement.

We intend to fund our capital requirements, as well as our liquidity needs, with existing cash, cash equivalent and short-term investment balances as well as cash generated by operations. We believe that our existing cash, cash equivalent and short-term investment balances will be sufficient to meet our working capital needs, capital requirements, investment requirements and commitments for at least the next twelve months. However, our capital requirements will depend on many factors, including our rate of sales growth, market acceptance of our products, costs of securing access to adequate manufacturing capacity, the timing and extent of research and development projects, costs of securing adequate facilities and increases in operating expenses, which are all subject to uncertainty. To the extent that our existing cash, cash equivalent and investment balances and cash generated by operations are insufficient to fund our future activities, we may need to raise additional funds through public or private debt or equity financing. We may enter into acquisitions or strategic arrangements in the future, which could also require us to seek additional debt or equity financing, which in turn may be dilutive to our current shareholders. Additional funds may not be available on terms favorable to us or at all.

The following table summarizes our contractual obligations as of July 31, 2003 and the effect such obligations are expected to have on our liquidity and cash flow in future periods (in thousands):

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  | **Payments Due by Period** | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **There-** | | |  |  |  |  |  |
|  |  |  | **2004** |  |  |  | **2005** |  |  |  | **2006** |  | **2007** | | |  |  |  | **2008** | |  |  |  | **after** | |  |  | **Total** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **(remaining** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **six months)** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Contractual obligations: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Operating leases | $ | 4,310 |  | $ | | 9,677 |  | $ | | 8,749 |  | $2,933 | | |  |  |  | $2,054 | |  | $4,222 | | |  | $ | | 31,945 |  |  |
|  | Capital lease obligations |  | 3,646 |  |  |  | 7,596 |  |  |  | 6,880 |  | 2,538 | | |  |  |  |  | — | |  |  | — | |  |  | 20,660 |  |  |
|  | Purchase commitments to foundries |  | 72,356 |  |  |  | — | |  |  | — | |  |  | — | | | |  | — | |  |  | — | |  |  | 72,356 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total contractual cash obligations | $ | 80,312 |  | $ | | 17,273 |  | $ | | 15,629 |  | $5,471 | | |  |  |  | $2,054 | |  | $4,222 | | |  | $ | | 124,961 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Recent Accounting Pronouncements**

In January 2003, the FASB issued FASB Interpretation No. 46 (“FIN 46”), “Consolidation of Variable Interest Entities, an Interpretation of ARB No. 51.” FIN

46 requires certain variable interest entities to be consolidated by the primary beneficiary of the entity if the equity investors in the entity do not have the characteristics of a controlling financial interest or do not have sufficient equity at risk for the entity to finance its activities without additional subordinated financial support from other parties. FIN 46 is effective for all new variable interest entities created or acquired after January 31, 2003. For variable interest entities created or acquired prior to February 1, 2003, the provisions of FIN 46 must be applied for the first interim or annual period beginning after June

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15, 2003. We are currently evaluating the impact of the adoption of FIN 46 on our financial position or results of operations. It is reasonably possible that we are the primary beneficiary of or hold a significant variable interest in a variable interest entity. We have a 46% equity interest in a company that conducts research and development primarily on our behalf. Our maximum exposure to loss as a result of our investment with the potential variable interest entity is our investment of $3.0 million, as we are not obligated to provide any additional financing.

In May 2003, the FASB issued SFAS No. 150, “Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity.” SFAS No. 150 establishes standards for how an issuer classifies and measures certain financial instruments with characteristics of both liabilities and equity. SFAS No. 150 requires that an issuer classify a financial instrument that is within its scope as a liability (or an asset in some circumstances). Many of those instruments were previously classified as equity. SFAS No. 150 is effective for financial instruments entered into or modified after May 31, 2003, and otherwise is effective at the beginning of the first fiscal period beginning after June 15, 2003. SFAS No. 150 is to be implemented by reporting the cumulative effect of a change in an accounting principle for financial instruments created before the issuance date of SFAS No. 150 and still existing at the beginning of the interim period of adoption. Restatement is not permitted. We believe that the adoption of this standard will not have a material impact on our consolidated financial statements.

**Additional Factors That May Affect Future Results**

In addition to the factors discussed in the “Overview” and “Liquidity and Capital Resources” sections of this “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” the following additional factors may affect our future results. Many of these factors are beyond our control, including business cycles and seasonal trends of the computing, semiconductor and related industries.

***The continuing worldwide economic slowdown, acts of war, terrorism, international conflicts and related uncertainties may adversely impact our revenues and profitability.***

Slower economic activity, concerns about inflation, decreased consumer confidence, reduced corporate profits and capital spending, adverse business conditions and liquidity concerns in the telecommunications and related industries, the situation in Iraq and recent international conflicts, and terrorist and military activity have resulted in a continuing downturn in worldwide economic conditions. We cannot predict the timing, strength and duration of any economic recovery in the semiconductor industry and in particular, the broadband communications markets. In addition, the events of September 11, 2001, the continuing international conflicts and terrorist acts and the possibility of an extended presence in Iraq can be expected to place further pressure on economic conditions in the United States and worldwide. Also, a resurgence or perceived resurgence of severe acute respiratory syndrome, or SARS or a similar outbreak, could have a further adverse effect upon an already weakened world economy. These conditions make it extremely difficult for our customers, our vendors and for us to accurately forecast and plan future business activities. If these conditions continue or worsen, our business, financial condition and results of operations will likely suffer.

***A significant portion of our business is dependent upon the hard disk drive industry, which is highly cyclical and experiences rapid technological change.***

Sales to customers in the hard disk drive industry represented approximately 54% of our net revenue in the first six months of fiscal 2004 and represented 56% and 57% of our net revenue in fiscal 2003 and 2002, respectively. The hard disk drive industry is intensely competitive, and the technology changes rapidly. As a result, this industry is highly cyclical, with periods of increased demand and rapid growth followed by periods of oversupply and subsequent contraction. These cycles may affect us as our customers are suppliers to this industry. Hard disk drive manufacturers tend to order more components than they may need during growth periods, and sharply reduce orders for components during periods of contraction. In addition, advances in existing technologies and the introduction of new technologies may result in lower demand for disk drive storage devices, thereby reducing demand for our products.

Rapid technological changes in the hard disk drive industry often result in significant and rapid shifts in market share among the industry’s participants. If the hard disk drive manufacturers using our products do not retain or increase market share, our sales may decrease.

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***Our Marvell Semiconductor Israel Ltd. And RADLAN Computer Communications Ltd. subsidiaries are incorporated under the laws of, and its principal offices are located in, the State of Israel and therefore its business operations may be harmed by adverse political, economic and military conditions affecting Israel.***

Each of Marvell Semiconductor Israel Ltd., or MSIL, and RADLAN Computer Communications Ltd., or RADLAN, are incorporated under the laws of and has its principal offices in the State of Israel. In addition, MSIL and RADLAN maintain their research and development operations in Israel. Thus, MSIL and RADLAN are directly influenced by the political, economic and military conditions affecting Israel. Major hostilities involving or within Israel could disrupt MSIL and RADLAN’s research and development and other business operations. For example, continued hostilities between Israel and the Palestinian authority in recent months have caused substantial political unrest, which could lead to a potential economic downturn in Israel. Additionally, the on-going situation in Iraq could lead to more economic instability and uncertainty in the State of Israel and the Middle East. Also, the interruption or curtailment of trade between Israel and its present trading partners or a significant downturn in the economic or financial condition of Israel could negatively impact the business operations and financial results of each of MSIL and RADLAN.

***We depend on a small number of large customers for a significant portion of our sales. The loss of, or a significant reduction or cancellation in sales to, any key customer would significantly reduce our revenues.***

In the first six months of fiscal 2004, approximately 46% of our net revenue was derived from sales to three customers, each of whom individually accounted for 10% or more of our net revenue during this period. Of these customers, Intel accounted for 20%, Samsung accounted for 16%, and Toshiba accounted for 10%. Sales to our largest customers have fluctuated significantly from period to period primarily due to the timing and number of design wins with each customer, as well as the continued diversification of our customer base as we expand into new markets, and will likely continue to fluctuate dramatically in the future. The loss of any of our largest customers, a significant reduction in sales we make to them, or any problems we encounter collecting amounts from them would likely seriously harm our financial condition and results of operations. Our operating results in the foreseeable future will continue to depend on sales to a relatively small number of customers, as well as the ability of these customers to sell products that incorporate our products. In the future, these customers may decide not to purchase our products at all, to purchase fewer products than they did in the past, or to alter their purchasing patterns in some other way, particularly because:

* substantially all of our sales are made on a purchase order basis, which permits our customers to cancel, change or delay product purchase commitments with little or no notice to us and without penalty;
* our customers may develop their own solutions;
* our customers purchase integrated circuits from our competitors; and
* our customers may discontinue sales in the markets for which they purchase our products.

***If we are unable to develop new and enhanced products that achieve market acceptance in a timely manner, our operating results and competitive position will be harmed.***

Our future success will depend on our ability, in a timely and cost-effective manner, to develop new products for the broadband communications market and to introduce enhancements to our products for the storage market. We must also achieve market acceptance for these products and enhancements. If we do not successfully develop and achieve market acceptance for new and enhanced products, our ability to maintain or increase revenues will suffer. The development of our products is highly complex. We occasionally have experienced delays in completing the development and introduction of new products and product enhancements, and we could experience delays in the future. In particular, we have a limited history in developing products for the broadband communications market and may encounter technical difficulties in developing wireless LAN or other products for this market that could prevent or delay their successful introduction. Unanticipated problems in developing broadband communications products could also divert substantial engineering resources, which may impair our ability to develop new products and enhancements for the storage market, and could substantially increase our costs. Even if the new and enhanced products are introduced to the market, we may not be able to achieve market acceptance of these products in a timely manner.

Successful product development and market acceptance of our products depends on a number of factors, including:

* timely and cost-effective completion and introduction of new product designs; 23



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* adoption of our products by customers that are among the first to adopt new technologies and by customers perceived to be market leaders;
* timely qualification and certification of our products for use in our customers’ products;
* the level of acceptance of our products by existing and potential customers;
* cost and availability of foundry, assembly and testing capacity;
* availability, price, performance, power, use and size of our products and competing products and technologies;
* our customer service and support capabilities and responsiveness;
* successful development of our relationships with existing and potential customers and strategic partners; and
* our ability to predict and respond to changes in technology, industry standards or end-user preferences.

In addition, our longstanding relationships with some of our larger customers may also deter other potential customers who compete with these customers from buying our products. To attract new customers or retain existing customers, we may offer certain customers favorable prices on our products. If these prices are lower than the prices paid by our existing customers, we would have to offer the same lower prices to certain of our customers who have contractual “most favored nation” pricing arrangements. In that event, our average selling prices and gross margins would decline. The loss of a key customer, a reduction in sales to any key customer or our inability to attract new significant customers could materially and adversely affect our business, financial condition and results of operations.

***Past acquisitions and any future acquisitions or transactions may not be successful.***

We expect to continue to make acquisitions of, and investments in, businesses that offer complementary products, services and technologies, augment our market segment coverage, or enhance our technological capabilities. We may also enter into strategic alliances or joint ventures to achieve these goals. We cannot assure you that we will be able to identify suitable acquisition, investment, alliance, or joint venture opportunities or that we will be able to consummate any such transactions or relationships on terms and conditions acceptable to us, or that such transactions or relationships will be successful.

Any transactions or relationships will be accompanied by the risks commonly encountered with those matters. Risks that could have a material adverse affect on our business, results of operations or financial condition include, among other things:

* the difficulty of assimilating the operations and personnel of an acquired businesses;
* the potential disruption of our ongoing business;
* the distraction of management from our business;
* the potential inability of management to maximize the financial and strategic position of us as a result of an acquisition;
* the potential difficulty maintaining uniform standards, controls, procedures and policies;
* the impairment of relationships with employees and clients as a result of any integration of new management personnel;
* the risk of entering market segments in which we have no or limited direct prior experience and where competitors in such market segments have stronger market segment positions; and
* the potential loss of key employees of an acquired company.

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***Our recent acquisition of RADLAN and any future acquisitions could harm our operating results and share price.***

On June 27, 2003, we acquired RADLAN Computer Communications Ltd., a leading provider of embedded networking software. Pursuant to the terms of the share purchase agreement, we will issue a combination of cash, shares, warrants and stock options to purchase our common stock for the remaining outstanding shares of RADLAN capital stock and employee stock options.

Any acquisitions, including our recent acquisition of RADLAN, could materially harm our operating results as a result of possible concurrent issuances of dilutive equity securities. In addition, the purchase price of any acquired businesses may exceed the current fair values of the net tangible assets of the acquired businesses. As a result, we would be required to record material amounts of goodwill and other intangible assets, which could result in significant impairment charges and amortization expense in future periods. These charges, in addition to the results of operations of such acquired businesses, could have a material adverse effect on our business, financial condition and results of operations. We cannot forecast the number, timing or size of future acquisitions, or the effect that any such acquisitions might have on our operating or financial results.

Under generally accepted accounting principles, we are required to review our intangible assets for impairment whenever events or changes in circumstances indicate that the carrying value of these assets may not be recoverable. In addition, we are required to review our goodwill and indefinite-lived intangible assets on an annual basis. Over the last year, there has been a slowdown in worldwide economies, including the United States, which has affected our business. End customers for our products have slowed their purchases of next-generation technology and have delayed or rescheduled existing orders for products that incorporate our technology. If the economic downtrend continues, or if other presently unforeseen events or changes in circumstances arise which indicate that the carrying value of our goodwill or other intangible assets may not be recoverable, we will be required to perform impairment reviews of these assets, which have carrying values of approximately $1.6 billion as of July 31, 2003. An impairment review could result in a write-down of all or a portion of these assets to their fair values. We will perform an annual impairment review during the fourth quarter of each fiscal year or more frequently if we believe indicators of impairment exist. In light of the large carrying value associated with our goodwill and intangible assets, any write-down of these assets may result in a significant charge to our statement of operations in the period any impairment is determined and could cause our stock price to decline.

***We are a relatively small company with limited resources compared to some of our current and potential competitors, and we may not be able to compete effectively and increase or maintain revenue and market share.***

We may not be able to compete successfully against current or potential competitors. If we do not compete successfully, our market share and revenues may not increase or may decline. In addition, most of our current and potential competitors have longer operating histories, significantly greater resources and name recognition, and a larger base of customers than we do. As a result, these competitors may have greater credibility with our existing and potential customers.

Moreover, our competitors may foresee the course of market developments more accurately than us. They also may be able to adopt more aggressive pricing policies and devote greater resources to the development, promotion and sale of their products than us, which would allow them to respond more quickly than us to new or emerging technologies or changes in customer requirements. In addition, new competitors or alliances among existing competitors could emerge. We expect to face competition in the future from our current competitors, other manufacturers and designers of integrated circuits, and innovative start-up integrated circuit design companies. Many of our customers are also large, established integrated circuit suppliers. Our sales to and support of such customers may enable them to become a source of competition to us, despite our efforts to protect our intellectual property rights.

In the wireless LAN market, we face competition from a number of additional competitors who have a longer history of serving that market. Many of these competitors have more-established reputations in that market and longer-standing relationships with the customers to whom we sell our products, which could prevent us from competing successfully. Competition could increase pressure on us to lower our prices and lower our margins, which, in turn, would harm our operating results.

***Due to our limited operating history, we may have difficulty in accurately predicting our future sales and appropriately budgeting for our expenses, and we may not be able to maintain our existing growth rate.***

Our limited operating experience, combined with the rapidly changing nature of the markets in which we sell our products, limits our ability to accurately forecast quarterly and annual sales. Additionally, because many of our expenses are fixed in the short term or are incurred in advance of anticipated sales, we may not be able to decrease our expenses in a timely manner to offset any shortfall of sales. We are currently expanding our staffing and increasing our expense levels in anticipation of future sales growth. If our sales do not increase as anticipated, significant losses could result due to our higher expense levels.

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Although we have experienced sales and earnings growth in prior quarterly and annual periods, we may not be able to sustain these growth rates, particularly in the period of economic slowdown we are currently experiencing. Accordingly, you should not rely on the results of any prior quarterly or annual periods as an indication of our future performance.

***Because we do not have long-term commitments from our customers, we must estimate customer demand, and errors in our estimates can have negative effects on our inventory levels, sales and operating results.***

Our sales are made on the basis of individual purchase orders rather than long-term purchase commitments. In addition, our customers may cancel or defer purchase orders. We have historically placed firm orders for products with our suppliers up to sixteen weeks prior to the anticipated delivery date and typically prior to receiving an order for the product. Therefore, our order volumes are based on our forecasts of demand from our customers. This process requires us to make multiple demand forecast assumptions, each of which may introduce error into our estimates. If we overestimate customer demand, we may allocate resources to manufacturing products that we may not be able to sell when we expect or at all. As a result, we would have excess inventory, which would harm our financial results. Conversely, if we underestimate customer demand or if insufficient manufacturing capacity is available, we would forego revenue opportunities, lose market share and damage our customer relationships. On occasion, we have been unable to adequately respond to unexpected increases in customer purchase orders, and therefore, were unable to benefit from this increased demand.

***Our future success depends in significant part on strategic relationships with customers. If we cannot maintain these relationships or if these customers develop their own solutions or adopt a competitor’s solutions instead of buying our products, our operating results would be adversely affected.***

In the past, we have relied in significant part on our strategic relationships with customers that are technology leaders in our target markets. We intend to pursue and continue to form these strategic relationships in the future but we cannot assure you that we will be able to do so. These relationships often require us to develop new products that may involve significant technological challenges. Our partners frequently place considerable pressure on us to meet their tight development schedules. Accordingly, we may have to devote a substantial amount of our limited resources to our strategic relationships, which could detract from or delay our completion of other important development projects. Delays in the development could impair our relationships with our strategic partners and negatively impact sales of the products under development. Moreover, it is possible that our customers may develop their own solutions or adopt a competitor’s solution for products that they currently buy from us. If that happens, our business, financial condition and results of operations could be materially harmed.

***We rely on independent foundries and subcontractors for the manufacture, assembly and testing of our integrated circuit products, and the failure of any of these third-party vendors to deliver products or otherwise perform as requested could damage our relationships with our customers, decrease our sales and limit our growth.***

We do not have our own manufacturing or assembly facilities and have very limited in-house testing facilities. Therefore, we must rely on third-party vendors to manufacture, assemble and test the products we design. We currently rely on TSMC to produce substantially all of our integrated circuit products. We also currently rely on TSMC and other third-party assembly and test subcontractors to assemble, package and test our products. The resurgence of SARS and any similar future outbreaks in Asia could affect the production capabilities of our manufacturers by resulting in quarantines or closures. In the event of such a quarantine or closure, if we were unable to quickly identify alternate manufacturing facilities, our revenues, cost of revenues and results of operations would be negatively impacted. If these vendors do not provide us with high-quality products and services in a timely manner, or if one or more of these vendors terminates its relationship with us, we may be unable to obtain satisfactory replacements to fulfill customer orders on a timely basis, our relationships with our customers could suffer, our sales could decrease and our growth could be limited. Other significant risks associated with relying on these third-party vendors include:

* our customers or their customers may fail to approve or delay approving our selected supplier;
* we have reduced control over product cost, delivery schedules and product quality;
* the warranties on wafers or products supplied to us are limited; and
* we face increased exposure to potential misappropriation of our intellectual property.

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We currently do not have long-term supply contracts with any of our third-party vendors. Therefore, they are not obligated to perform services or supply products to us for any specific period, in any specific quantities, or at any specific price, except as may be provided in a particular purchase order. None of our third-party foundry or assembly and test subcontractors have provided contractual assurances to us that adequate capacity will be available to us to meet future demand for our products. These foundries may allocate capacity to the production of other companies’ products while reducing deliveries to us on short notice. In particular, foundry customers that are larger and better financed than us or that have long-term agreements with these foundries may cause these foundries to reallocate capacity to those customers, decreasing the capacity available to us. If we need another integrated circuit foundry or assembly and test subcontractor because of increased demand, or the inability to obtain timely and adequate deliveries from our providers at the time, we might not be able to develop relationships with other vendors who are able to satisfy our requirements. Even if other integrated circuit foundries or assembly and test subcontractors are available at that time to satisfy our requirements, it would likely take several months to acquire a new provider. Such a change may also require the approval of our customers, which would take time to effect and could cause our customers to cancel orders or fail to place new orders.

***If our foundries do not achieve satisfactory yields or quality, our relationships with our customers and our reputation will be harmed.***

The fabrication of integrated circuits is a complex and technically demanding process. Our foundries have from time to time experienced manufacturing defects and reduced manufacturing yields. Changes in manufacturing processes or the inadvertent use of defective or contaminated materials by our foundries could result in lower than anticipated manufacturing yields or unacceptable performance. Many of these problems are difficult to detect at an early stage of the manufacturing process and may be time consuming and expensive to correct. Poor yields from our foundries, or defects, integration issues or other performance problems in our products could cause us significant customer relations and business reputation problems, harm our financial results and result in financial or other damages to our customers. Our customers could also seek damages from us for their losses. A product liability claim brought against us, even if unsuccessful, would likely be time consuming and costly to defend. In addition, defects in our existing or new products could result in significant warranty, support and repair costs, and divert the attention of our engineering personnel from our product development efforts.

***The complexity of our products could result in unforeseen delays or expenses in undetected defects or bugs, which could adversely affect the market acceptance of new products, damage our reputation with current or prospective customers, and materially and adversely affect our operating costs.***

Highly complex products such as the products that we offer frequently contain defects and bugs when they are first introduced or as new versions are released. We have in the past experienced, and may in the future experience, these defects and bugs. Historically, we have been able to design workarounds to fix these defects and bugs with minimal to no disruption to our business or our customers’ business. Going forward, if any of our products contain defects or bugs, or have reliability, quality, or compatibility problems, we may not be able to successfully design workarounds. Consequently, our reputation may be damaged and customers may be reluctant to buy our products, which could materially and adversely affect our ability to retain existing customers, attract new customers, and our financial results. In addition, these defects or bugs could interrupt or delay sales to our customers. To alleviate these problems, we may have to invest significant capital and other resources. Although our products are tested by our suppliers, our customers and ourselves, it is possible that our new products will contain defects or bugs. If any of these problems are not found until after we have commenced commercial production of a new product, we may be required to incur additional development costs and product recall, repair or replacement costs. These problems may also result in claims against us by our customers or others. In addition, these problems may divert our technical and other resources from other development efforts. Moreover, we would likely lose, or experience a delay in, market acceptance of the affected product or products, and we could lose credibility with our current and prospective customers. As a result, our financial results could be materially harmed.

***We may experience difficulties in transitioning to smaller geometry process technologies or in achieving higher levels of design integration, which may result in reduced manufacturing yields, delays in product deliveries and increased expenses.***

In order to remain competitive, we expect to continue to transition our semiconductor products to increasingly smaller line width geometries. This transition requires us to modify the manufacturing processes for our products and to redesign some products. We periodically evaluate the benefits, on a product-by-product basis, of migrating to smaller geometry process technologies to reduce our costs. In the past, we have experienced some difficulties in shifting to smaller geometry process technologies or new manufacturing processes, which resulted in reduced manufacturing yields, delays in product deliveries and increased expenses. We may face similar difficulties, delays and expenses as we continue to transition our products to smaller geometry processes. We are dependent on our relationships with our foundries to transition to smaller geometry processes successfully and cannot assure you that our foundries will

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be able to effectively manage the transition. If our foundries or we experience significant delays in this transition or fail to efficiently implement this transition, our business, financial condition and results of operations could be materially and adversely affected. As smaller geometry processes become more prevalent, we expect to continue to integrate greater levels of functionality, as well as customer and third party intellectual property, into our products. However, we may not be able to achieve higher levels of design integration or deliver new integrated products on a timely basis, or at all.

***We depend on key personnel with whom we do not have employment agreements to manage our business, and if we are unable to retain our current personnel and hire additional personnel, our ability to develop and successfully market our products could be harmed.***

We believe our future success will depend in large part upon our ability to attract and retain highly skilled managerial, engineering and sales and marketing personnel. The loss of any key employees or the inability to attract or retain qualified personnel, including engineers and sales and marketing personnel, could delay the development and introduction of, and harm our ability to sell, our products. We believe that our future success is highly dependent on the contributions of Dr. Sehat Sutardja, our co-founder, President and Chief Executive Officer; Weili Dai, our co-founder and Executive Vice President; and Dr. Pantas Sutardja, our co-founder and Vice President and Chief Technology Officer. We do not have employment contracts with these or any other key personnel, and their knowledge of our business and industry would be extremely difficult to replace.

There is currently a shortage of qualified technical personnel with significant experience in the design, development, manufacture, marketing and sales of integrated circuits for use in communications products. In particular, there is a shortage of engineers who are familiar with the intricacies of the design and manufacture of products based on analog technology, and competition for these engineers is intense. Our key technical personnel represent a significant asset and serve as the source of our technological and product innovations. We may not be successful in attracting and retaining sufficient numbers of technical personnel to support our anticipated growth.

***Our officers and directors own a large percentage of our voting stock, and three existing directors, who are also significant shareholders, are related by blood or marriage. These factors may allow the officers and directors as a group or the three related directors to control the election of directors and the approval or disapproval of significant corporate actions.***

As of August 31, 2003, our executive officers and directors beneficially owned or controlled, directly or indirectly, approximately 31% of the outstanding shares our common stock. Additionally, Sehat Sutardja and Weili Dai are husband and wife and Sehat Sutardja and Pantas Sutardja are brothers. All three are directors and together they held approximately 27% of our outstanding common stock as of August 31, 2003. As a result, if the directors and officers as a group or any of Sehat Sutardja, Weili Dai, and Pantas Sutardja act together, they will significantly influence, and will likely control, the election of our directors and the approval or disapproval of our significant corporate actions. This influence over our affairs might be adverse to the interests of other shareholders. In addition, the voting power of these officers or directors could have the effect of delaying or preventing an acquisition of us on terms that other shareholders may desire.

Under Bermuda law all of our officers, in exercising their powers and discharging their duties, must act honestly and in good faith with a view to our best interests and exercise the care, diligence and skill that a reasonably prudent person would exercise in comparable circumstances. Majority shareholders do not owe fiduciary duties to minority shareholders. As a result, the minority shareholders will not have a direct claim against the majority shareholders in the event the majority shareholders take actions that damage the interests of minority shareholders. Class actions and derivative actions are generally not available to shareholders under the laws of Bermuda, except the Bermuda courts would be expected to follow English case law precedent, which would permit a shareholder to bring an action in our name if the directors or officers are alleged to be acting beyond our corporate power, committing illegal acts or violating our Memorandum of Association or Bye-laws. In addition, minority shareholders would be able to challenge a corporate action that allegedly constituted a fraud against them or required the approval of a greater percentage of our shareholders than actually approved it. The winning party in such an action generally would be able to recover a portion of attorneys’ fees incurred in connection with the action.

***Our rapid growth has strained our resources and our inability to manage any future growth could harm our profitability.***

Our rapid growth has placed, and any future growth of our operations will continue to place, a significant strain on our management personnel, systems and resources. We anticipate that we will need to implement a variety of new and upgraded operational and financial systems, procedures and controls, including the improvement of our accounting and other internal management systems. We also expect that we will need to continue to expand, train, manage and motivate our workforce. All of these

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endeavors will require substantial management effort. If we are unable to effectively manage our expanding operations, our operating results could be harmed.

In May 2003, we completed the implementation of a new Enterprise Resource Planning, or ERP, system. An ERP system implementation is a very complex, costly and time-consuming process. Any unforeseen delays or difficulties after we begin transacting on the new system or in performing financial closes on the new systems, may divert the attention of management and other employees and disrupt our ongoing business and could have a material adverse impact on our financial condition and results of operations.

***We face foreign business, political and economic risks, which may harm our results of operations, because a majority of our products and our customers’ products are manufactured and sold outside of the United States.***

A substantial portion of our business is conducted outside of the United States and, as a result, we are subject to foreign business, political and economic risks. All of our products are manufactured outside of the United States. Our current qualified integrated circuit foundries are located in the same region within Taiwan, and our primary assembly and test subcontractors are located in the Pacific Rim region. In addition, many of our customers are located outside of the United States, primarily in Asia, which further exposes us to foreign risks. Sales to customers located in Asia represented approximately 89% of our net revenue in the first six months of fiscal 2004, and represented 87% and 83% of our net revenue in fiscal 2003 and 2002, respectively.

We anticipate that our manufacturing, assembly, testing and sales outside of the United States will continue to account for a substantial portion of our operations and revenue in future periods. Accordingly, we are subject to risks associated with international operations, including:

* difficulties in obtaining domestic and foreign export, import and other governmental approvals, permits and licenses;
* compliance with foreign laws;
* difficulties in staffing and managing foreign operations;
* trade restrictions or higher tariffs;
* transportation delays;
* difficulties of managing distributors, especially because we expect to continue to increase our sales through international distributors;
* political and economic instability, including wars, terrorism, other hostilities and political unrest, boycotts, curtailment of trade and other business restrictions; and
* inadequate local infrastructure.

Additionally, our operations may be impacted in the following ways by a resurgence of SARS, including, but not limited to, disruptions of our third party manufacturers that are primarily located in Asia, reduced sales in our international retail channels and increased supply chain costs. If future outbreaks of SARS or similar diseases rise or spreads to other areas, our international sales and operations could be harmed.

Substantially all of our sales to date have been denominated in United States dollars, increases in the value of the United States dollar will increase the price of our products so that they become relatively more expensive to customers in the local currency of a particular country, potentially leading to a reduction in sales and profitability for us in that country. A portion of our international revenue may be denominated in foreign currencies in the future, which will subject us to risks associated with fluctuations in exchange rates for those foreign currencies.

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***Our third-party foundries and subcontractors are concentrated in Taiwan and elsewhere in the Pacific Rim, an area subject to significant earthquake risks. Any disruption to the operations of these foundries and subcontractors resulting from earthquakes or other natural disasters could cause significant delays in the production or shipment of our products.***

Substantially all of our products are manufactured by Taiwan Semiconductor Manufacturing Company, or TSMC, which is located in Taiwan. Currently our only alternative manufacturing sources are located in Taiwan, China and Singapore. In addition, substantially all of our assembly and testing facilities are located in Singapore, Taiwan and the Philippines. The risk of an earthquake in Taiwan and elsewhere in the Pacific Rim region is significant due to the proximity of major earthquake fault lines to the facilities of our foundries and assembly and test subcontractors. In September 1999, a major earthquake in Taiwan affected the facilities of several of these third-party contractors. As a consequence of this earthquake, these contractors suffered power outages and disruptions that impaired their production capacity. In March 2002 and June 2003, major earthquakes occurred in Taiwan. Although our foundries and subcontractors did not suffer any significant damage as a result of this most recent earthquake, the occurrence of additional earthquakes or other natural disasters could result in the disruption of our foundry or assembly and test capacity. Any disruption resulting from such events could cause significant delays in the production or shipment of our products until we are able to shift our manufacturing, assembling or testing from the affected contractor to another third-party vendor. We may not be able to obtain alternate capacity on favorable terms, if at all.

***We rely on third-party distributors and manufacturers’ representatives and the failure of these distributors and manufacturers’ representatives to perform as expected could reduce our future sales.***

We sell our communications products to customers primarily through distributors and manufacturers’ representatives. Our relationships with some of our distributors and manufacturers’ representatives have been established within the last two years, and we are unable to predict the extent to which our distributors and manufacturers’ representatives will be successful in marketing and selling our products. Moreover, many of our manufacturers’ representatives and distributors also market and sell competing products. Our representatives and distributors may terminate their relationships with us at any time. Our future performance will also depend, in part, on our ability to attract additional distributors or manufacturers’ representatives that will be able to market and support our products effectively, especially in markets in which we have not previously distributed our products. If we cannot retain our current distributors or manufacturers’ representatives or recruit additional or replacement distributors or manufacturers’ representatives, our sales and operating results will be harmed. The loss of one or more of our distributors or manufacturers’ representatives could harm our sales and results of operations. We generally realize a higher gross margin on direct sales and from sales through manufacturers’ representatives than on sales through distributors. Accordingly, if our distributors were to account for an increased portion of our net sales, our gross margins may decline.

***The average selling prices of products in our markets have historically decreased rapidly and will likely do so in the future, which could harm our revenues and gross profits.***

The products we develop and sell are used for high volume applications. As a result, the prices of those products have historically decreased rapidly. Our gross profits and financial results will suffer if we are unable to offset any reductions in our average selling prices by increasing our sales volumes, reducing our costs, or developing new or enhanced products on a timely basis with higher selling prices or gross profits. We expect that our gross profits on our storage products are likely to decrease over the next fiscal year below levels we have historically experienced due to (i) pricing pressures from our customers, and (ii) an increase in sales of SOCs, which typically have lower margins than standalone read channel devices, and (iii) an increase in sales of products into consumer application markets, which are highly competitive and cost sensitive. In addition, if our sales of storage products into the desktop computer market were to increase as a percentage of total storage revenues, our margins would also likely decrease because gross margins on sales into this market are generally lower than for sales into the enterprise and mobile computer markets, where we currently generate the substantial majority of our storage product revenues.

Additionally, because we do not operate our own manufacturing, assembly or testing facilities, we may not be able to reduce our costs as rapidly as companies that operate their own facilities, and our costs may even increase, which could also reduce our margins. In the past, we have reduced the average selling prices of our products in anticipation of future competitive pricing pressures, new product introductions by us or our competitors and other factors. We expect that we will have to do so again in the future.

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***We have a lengthy and expensive storage product sales cycle that does not assure product sales, and that if unsuccessful, may harm our operating results.***

The sales cycle for our storage products is long and requires us to invest significant resources with each potential customer without any assurance of sales to that customer. Our sales cycle typically begins with a three to six month evaluation and test period, also known as qualification, during which our products undergo rigorous reliability testing by our customers.

Qualification is typically followed by a twelve to eighteen month development period by our customers and an additional three to six month period before a customer commences volume production of equipment incorporating our products. This lengthy sales cycle creates the risk that our customers will decide to cancel or change product plans for products incorporating our integrated circuits. During our sales cycle, our engineers assist customers in implementing our products into the customers’ products. We incur significant research and development and selling, general and administrative expenses as part of this process, and this process may never generate related revenues. We derive revenue from this process only if our design is selected. Once a customer selects a particular integrated circuit for use in a storage product, the customer generally uses solely that integrated circuit for a full generation of its product. Therefore, if we do not achieve a design win for a product, we will be unable to sell our integrated circuit to a customer until that customer develops a new product or a new generation of its product. Even if we achieve a design win with a customer, the customer may not ultimately ship products incorporating our products or may cancel orders after we have achieved a sale. In addition, we will have to begin the qualification process again when a customer develops a new generation of a product for which we were the successful supplier.

Also, during the final production of a mature product, our customers typically exhaust their existing inventory of our integrated circuits. Consequently, orders for our products may decline in those circumstances, even if our products are incorporated into both our customers’ mature and replacement products. A delay in a customer’s transition to commercial production of a replacement product may cause the customer to lose sales, which would delay our ability to recover the lost sales from the discontinued mature product. In addition, customers may defer orders in anticipation of new products or product enhancements from our competitors or us.

***We are subject to the cyclical nature of the integrated circuit industry. The current and any future downturns will likely reduce our revenue and result in excess inventory.***

The integrated circuit industry is highly cyclical and is characterized by constant and rapid technological change, rapid product obsolescence and price erosion, evolving standards, short product life cycles and wide fluctuations in product supply and demand. The industry has experienced, and is currently experiencing, significant downturns, often connected with, or in anticipation of, maturing product cycles of both integrated circuit companies’ and their customers’ products and declines in general economic conditions. These downturns have been characterized by diminished product demand, production overcapacity, high inventory levels and accelerated erosion of average selling prices. The current downturn and any future downturns may reduce our revenue or our percentage of revenue growth on a quarter-to-quarter basis and result in us having excess inventory.

Furthermore, any upturn in the integrated circuit industry could result in increased competition for access to third-party foundry, assembly and test capacity.

***When demand for foundry capacity is high, we may take various actions to try to secure sufficient capacity, which may be costly and harm our operating results.***

Availability of foundry capacity has in the recent past been reduced due to strong demand. In order to secure sufficient foundry capacity when demand is high, we may enter into various arrangements with suppliers that could be costly and harm our operating results, including:

* option payments or other prepayments to a foundry;
* nonrefundable deposits with or loans to foundries in exchange for capacity commitments;
* contracts that commit us to purchase specified quantities of integrated circuits over extended periods;
* issuance of our equity securities to a foundry;

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* investment in a foundry; and
* other contractual relationships with foundries.

We may not be able to make any such arrangement in a timely fashion or at all, and any arrangements may be costly, reduce our financial flexibility, and not be on terms favorable to us. Moreover, if we are able to secure foundry capacity, we may be obligated to use all of that capacity or incur penalties. These penalties may be expensive and could harm our financial results.

***The development and evolution of markets for our integrated circuits are dependent on factors, such as industry standards, over which we have no control. For example, if our customers adopt new or competing industry standards with which our products are not compatible or fail to adopt standards with which our products are compatible, our existing products would become less desirable to our customers and our sales would suffer.***

The emergence of markets for our integrated circuits is affected by a variety of factors beyond our control. In particular, our products are designed to conform to current specific industry standards. Our customers may not adopt or continue to follow these standards, which would make our products less desirable to our customers and reduce our sales. Also, competing standards may emerge that are preferred by our customers, which could also reduce our sales and require us to make significant expenditures to develop new products.

We have made a significant investment in the development and production of our Gigabit Ethernet products, including our physical layer devices and switched Ethernet products. However, the Gigabit Ethernet technology is relatively new compared to the more established 10 and 100 Megabit per second Fast Ethernet technologies. If the Gigabit Ethernet technology does not achieve widespread market acceptance, our revenue and operating results may be harmed. We have also made a significant investment in the development of wireless LAN products based on the IEEE 802.11b and 802.11g standards. Wireless LAN technologies are relatively new and many competing standards, such as IEEE 802.11a and Bluetooth™, exist. If the 802.11b and 802.11g standards do not achieve widespread market acceptance, our revenue and operating results may be harmed.

***We may be unable to protect our intellectual property, which would negatively affect our ability to compete.***

We believe one of our key competitive advantages results from our collection of proprietary technologies that we have developed since our inception. If we fail to protect these intellectual property rights, competitors could sell products based on technology that we have developed, which could harm our competitive position and decrease our revenues. We believe that the protection of our intellectual property rights is and will continue to be important to the success of our business. We rely on a combination of patent, copyright, trademark and trade secret laws, as well as nondisclosure agreements and other methods, to protect our proprietary technologies. We also enter into confidentiality or license agreements with our employees, consultants and business partners, and control access to and distribution of our documentation and other proprietary information. We have been issued several United States patents and have a number of pending United States patent applications. However, a patent may not be issued as a result of any applications or, if issued, claims allowed may not be sufficiently broad to protect our technology. In addition, it is possible that existing or future patents may be challenged, invalidated or circumvented. Despite our efforts, unauthorized parties may attempt to copy or otherwise obtain and use our products or proprietary technology. Monitoring unauthorized use of our technology is difficult, and the steps that we have taken may not prevent unauthorized use of our technology, particularly in foreign countries where the laws may not protect our proprietary rights as fully as in the United States.

***Significant litigation over intellectual property in our industry may cause us to become involved in costly and lengthy litigation, which could subject us to liability, require us to stop selling our products or force us to redesign our products.***

Litigation involving patents and other intellectual property is widespread in the high-technology industry and is particularly prevalent in the integrated circuit industry, where a number of companies aggressively bring numerous infringement claims to protect their patent portfolios. From time to time we receive, and may continue to receive in the future, notices that claim we have infringed upon, misappropriated or misused the proprietary rights of other parties. These claims could result in litigation which, in turn, could subject us to significant liability for damages. These lawsuits, regardless of their success, would likely be time-consuming and expensive to resolve and would divert management time and attention. Any potential intellectual property litigation also could force us to do one or more of the following:

* stop selling products or using technology that contain the allegedly infringing intellectual property; 32



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* pay damages to the party claiming infringement;
* attempt to obtain a license to the relevant intellectual property, which license may not be available on reasonable terms or at all; and
* attempt to redesign those products that contain the allegedly infringing intellectual property.

***We are incorporated in Bermuda, and, as a result, it may not be possible for our shareholders to enforce civil liability provisions of the securities laws of the United States.***

We are organized under the laws of Bermuda. As a result, it may not be possible for our shareholders to effect service of process within the United States upon us, or to enforce against us in United States courts judgments based on the civil liability provisions of the securities laws of the United States. Most of our executive officers and directors are residents of the United States. However, there is significant doubt as to whether the courts of Bermuda would recognize or enforce judgments of United States courts obtained against us or our directors or officers based on the civil liability provisions of the securities laws of the United States or any state or hear actions brought in Bermuda against us or those persons based on those laws. The United States and Bermuda do not currently have a treaty providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. Therefore, a final judgment for the payment of money rendered by any federal or state court in the United States based on civil liability, whether or not based solely on United States federal or state securities laws, would not be automatically enforceable in Bermuda.

***Our Bye-laws contain a waiver of claims or rights of action by our shareholders against our officers and directors, which will severely limit our shareholders’ right to assert a claim against our officers and directors under Bermuda law.***

Our Bye-laws contain a broad waiver by our shareholders of any claim or right of action, both individually and on our behalf, against any of our officers and directors. The waiver applies to any action taken by an officer or director, or the failure of an officer or director to take any action, in the performance of his or her duties with or for us, other than with respect to any matter involving any fraud or dishonesty on the part of the officer or director. This waiver will limit the rights of our shareholders to assert claims against our officers and directors unless the act complained of involves actual fraud or dishonesty. Thus, so long as acts of business judgment do not involve actual fraud or dishonesty, they will not be subject to shareholder claims under Bermuda law. For example, shareholders will not have claims against officers and directors for a breach of trust, unless the breach rises to the level of actual fraud or dishonesty.

***We are subject to uncertainty regarding how the United States federal income tax laws apply to our business. If our position is disputed, our operating results could be harmed.***

In the United States, we pay income tax on the income of our U.S. subsidiaries and may be subject to the U.S. income tax and on any income that is considered to be effectively connected with the conduct of a trade or business in the United States. The determination of whether the income of a foreign corporation is effectively connected with the conduct of a trade or business in the United States requires significant management judgment, as it involves a consideration of all the facts and circumstances and the application of legal standards that are uncertain. Our position is that our foreign business operations do not generate any income that is effectively connected with a United States trade or business. If our position is disputed, the amount we have accrued in our financial statements for United States federal income taxes may be insufficient to the extent of the difference between the income tax rate ultimately determined to apply and the tax rate that we have used to accrue for income taxes in our financial statements. In addition, we could be required to make significant cash payments for back taxes and interest based on the difference between the income tax rate ultimately determined to apply and the rate at which we paid those taxes.

***Tax benefits we receive may be terminated or reduced in the future, which would increase our costs.***

Under current Bermuda law, we are not subject to tax on our income or capital gains. We have obtained from the Minister of Finance of Bermuda under the Exempt Undertakings Tax Protection Act 1966, as amended, an undertaking that, in the event that Bermuda enacts any legislation imposing tax computed on income or capital gains, those taxes should not apply to us until March 28, 2016. However, this exemption may not be extended beyond that date.

The Economic Development Board of Singapore granted Pioneer Status to our wholly-owned subsidiary in Singapore in July 2000 for a period of at least six years, commencing July 1, 1999. As a result, we anticipate that a significant portion of the income we earn in Singapore during this period will be exempt from the Singapore statutory tax rate. We are required to meet several requirements as

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to investment, headcount and activities in Singapore to retain this status. If our Pioneer Status is terminated early, our financial results could be harmed.

The Israeli government has granted Approved Enterprise Status to our wholly-owned subsidiary in Israel, which provides a tax holiday on undistributed income derived from operations within certain “development regions” in Israel. In order to maintain our qualification, we must continue to meet specified conditions, including the making of investments in fixed assets in Israel. As our tax holidays expire, we expect that we will start paying income tax on our operations within these development regions. Some of our regional tax holidays have already expired and we are currently paying income taxes in these regions.

***If we are classified as a passive foreign investment company, our shareholders may suffer adverse tax consequences.***

Because we are incorporated in Bermuda and have operations in the United States, Israel and Singapore, we are subject to special rules and regulations, including rules regarding a passive foreign investment company, or PFIC. We believe that we are not a PFIC, and we expect to continue to manage our affairs so that we will not become a PFIC. However, whether we should be treated as a PFIC is a factual determination that is made annually and is subject to change. If we are classified as a PFIC, then each United States holder of our common stock would, upon qualifying distributions by us or upon the pledge or sale of their shares of common stock at a gain, be liable to pay tax at the then prevailing rates on ordinary income plus an interest charge, generally as if the distribution or gain had been earned ratably over the shareholder’s holding period. In addition to the risks related to PFIC status, we and our shareholders could also suffer adverse tax consequences if we are classified as a foreign personal holding company, a personal holding company or a controlled foreign corporation.

***Class action litigation due to stock price volatility or other factors could cause us to incur substantial costs and divert our management’s attention and resources.***

On September 5, 2001, a putative class action was filed in the Southern District of New York relating to our initial public offering, or IPO. In this action, the plaintiffs named several defendants including Marvell and two of our officers, one of whom is also a director. This complaint relating to our IPO has been consolidated with hundreds of other lawsuits by plaintiffs against approximately 55 underwriters and approximately 300 issuers across the United States. Plaintiffs allege that defendants violated various provisions of the Securities Act of 1933 and the Securities Exchange Act of 1934. In these actions, plaintiffs seek, among other items, unspecified damages, pre-judgment interest and reimbursement of attorneys’ and experts’ fees. A Consolidated Amended Class Action Complaint against Marvell and two of our officers was filed on April 19, 2002. Subsequently, defendants in the consolidated proceedings moved to dismiss the actions. In February 2003, the trial Court issued its ruling on the motions, granting the motions in part, and denying them in part. Thus, the cases may proceed against the underwriters and us as to alleged violations of section 11 of the Securities Act of 1933 and section 10(b) of the Securities Exchange Act of 1934. Claims against the individual officers have been voluntarily dismissed with prejudice by agreement with plaintiffs. These claims and any resulting litigation could result in substantial costs and could divert the attention and resources of our management.

In the past, securities class action litigation often has been brought against a company following periods of volatility in the market price of its securities. Companies in the integrated circuit industry and other technology industries are particularly vulnerable to this kind of litigation due to the high volatility of their stock prices. Accordingly, we may in the future be the target of securities litigation. Any securities litigation could result in substantial costs and could divert the attention and resources of our management.

***Future sales of our common stock in the public market may depress our stock price.***

A substantial number of our shares remain available for sale pursuant to Rule 144. Future sales of a substantial number of shares of our common stock in the public market could cause our stock price to decline. As of August 31, 2003, we had 126,802,575 shares outstanding and none of these shares are subject to any lock-up agreements. The market price of our stock could drop significantly if holders of a substantial number of our shares sell them or are perceived by the market as intending to sell them. In addition, the sale of our shares could impair our ability to raise capital through the sale of additional stock.

***Our Bye-laws contain provisions that could delay or prevent a change in corporate control, even if the change in corporate control would benefit our shareholders.***

Our Bye-laws contain change in corporate control provisions which include:

* authorizing the issuance of preferred stock without shareholder approval; 34



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* providing for a classified board of directors with staggered, three-year terms; and
* requiring a vote of two-thirds of the outstanding shares to approve any change of corporate control.

These change in corporate control provisions could make it more difficult for a third-party to acquire us, even if doing so would be a benefit to our shareholders.

**Item 3. *Quantitative and Qualitative Disclosures about Market Risk***

*Interest Rate Risk.* The primary objective of our investment activities is to preserve principal while at the same time maximize the income we receive from ourinvestments without significantly increasing risk. Some of the securities that we have invested in may be subject to market risk. This means that a change in prevailing interest rates may cause the principal amount of the investment to fluctuate. For example, if we hold a security that was issued with a fixed interest rate at the then-prevailing rate and the prevailing interest rate later rises, the principal amount of our investment will probably decline, while variable rate securities may produce less income than expected if interest rates fall. To minimize this risk, we maintain our portfolio of cash equivalents and short-term investments in a variety of fixed and variable rate securities including money market funds; corporate debt securities; Federal, State, county and municipal debt securities; and foreign government securities. In general, money market funds are not subject to market risk because the interest paid on such funds fluctuates with the prevailing interest rate. The following table presents the amounts of our cash equivalents and short-term investments that are subject to market risk by range of expected maturity and weighted-average interest rates as of July 31, 2003 (in thousands). This table does not include money market funds because those funds are not subject to market risk.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  | **Expected Fiscal Year Maturity Date** | | | | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **2004** |  |  | **2005** |  |  | **2006** |  |  | **2007** |  |  | **Total** |  |  | **Fair Value** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Variable Rate | $41,023 | $ | | — | $ | | — | $ | | — | | $ | 41,023 | $ | | 41,023 |  |
|  | Average Interest Rate | 1.12% |  |  | — |  |  | — |  |  | — | |  | 1.12% |  |  |  |  |
|  | Fixed Rate | $32,689 | $ | | 42,675 | $ | | 46,230 | $ | | 21,185 |  | $ | 142,779 | $ | | 143,701 |  |
|  | Average Interest Rate | 2.70% |  |  | 3.36% |  |  | 2.97% |  |  | 2.13% |  |  | 2.90% |  |  |  |  |

*Investment Risk.* We invest in equity instruments of privately-held companies for business and strategic purposes. These investments, which totaled

$10.2 million at July 31, 2003, are included in other non-current assets in the accompanying balance sheets and all but one of the investments are accounted for using the cost method as our ownership is less than 20% and we do not have the ability to exercise significant influence over the operations on these companies. Since we own approximately 46% of one privately-held company, we are accounting for the investment using the equity method. We record our percentage of the net income (loss) to interest and other income (net). To date, we have recorded a loss on our equity investment of approximately $0.4 million to interest and other income (net). We monitor these investments for impairment and make appropriate reductions in carrying value when an impairment is deemed to be other than temporary.

*Foreign Currency Exchange Risk.* Substantially all of our sales and the majority of our expenses to date have been denominated in United States dollars, and,as a result, we have relatively little exposure to foreign currency exchange risk. We do not currently enter into forward exchange contracts to hedge exposures denominated in foreign currencies or any other derivative financial instruments for trading or speculative purposes. However, in the event our exposure to foreign currency risk increases, we may choose to hedge those exposures in the future.

**Item 4. *Controls and Procedures***

1. ***Evaluation of disclosure controls and procedures.*** We maintain “disclosure controls and procedures,” as such term is defined in Rule 13a-15(e) under theSecurities Exchange Act of 1934 (the “Exchange Act”), that are designed to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating our disclosure controls and procedures, management recognized that disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any disclosure controls and procedures also is based

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in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

Based on their evaluation as of the end of the period covered by this Quarterly Report on Form 10-Q, our Chief Executive Officer and Chief Financial Officer have concluded that, subject to the limitations noted above, our disclosure controls and procedures were effective to ensure that material information relating to us, including our consolidated subsidiaries, is made known to them by others within those entities, particularly during the period in which this Quarterly Report on Form 10-Q was being prepared.

1. ***Changes in internal controls.*** There was no change in our internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act)identified in connection with the evaluation described in Item 4(a) above that occurred during our last fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

**PART II. OTHER INFORMATION**

**Item 1. *Legal Proceedings***

On July 31, 2001, a putative class action suit was filed against two investment banks that participated in the underwriting of our initial public offering, or IPO, on June 29, 2000. That lawsuit, which did not name Marvell or any of our officers or directors as defendants, was filed in the United States District Court for the Southern District of New York. Plaintiffs allege that the underwriters received “excessive” and undisclosed commissions and entered into unlawful “tie-in” agreements with certain of their clients in violation of Section 10(b) of the Securities Exchange Act of 1934. Thereafter, on September 5, 2001, a second putative class action was filed in the Southern District of New York relating to our IPO. In this second action, plaintiffs named three underwriters as defendants and also named as defendants Marvell and two of our officers, one of whom is also a director. Relying on many of the same allegations contained in the initial complaint in which Marvell was not named as a defendant, plaintiffs allege that the defendants violated various provisions of the Securities Act of 1933 and the Securities Exchange Act of 1934. In both actions, plaintiffs seek, among other items, unspecified damages, pre-judgment interest and reimbursement of attorneys’ and experts’ fees. These two actions relating to our IPO have been consolidated with hundreds of other lawsuits filed by plaintiffs against approximately 40 underwriters and approximately 300 issuers across the United States. Defendants in the consolidated proceedings moved to dismiss the actions. In February 2003, the trial court issued its ruling on the motions, granting the motions in part, and denying them in part. Thus, the cases may proceed against the underwriters and us as to alleged violations of section 11 of the Securities Act of 1933 and section 10(b) of the Securities Exchange Act of 1934. Claims against the individual officers have been voluntarily dismissed with prejudice by agreement with plaintiffs. These claims and any resulting litigation could result in substantial costs and could divert the attention and resources of our management.

We are also party to other claims and litigation proceedings arising in the normal course of business. Although the legal responsibility and financial impact with respect to such claims and litigation cannot currently be ascertained, we do not believe that these matters will result in our payment of monetary damages, net of any applicable insurance proceeds, that, in the aggregate, would be material in relation to our consolidated financial position or results of operations. There can be no assurance that these matters will be resolved without costly litigation, in a manner that is not adverse to our financial position, results of operations or cash flows or without requiring royalty payments in the future which may adversely impact gross margins.

**Item 2. *Changes in Securities and Use of Proceeds***

Not applicable.

**Item 3. *Defaults Upon Senior Securities***

Not applicable.

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

At our 2003 Annual General Meeting of Shareholders held on June 27, 2003, the following proposals were adopted by the margins indicated.

1. To elect three directors constituting Class 3 of our Board of Directors, each to hold office for a three-year term and until their successor is duly elected and qualified.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Votes** |  | **Votes** |  | **Votes** |  | **Broker** |  |
|  |  | **For** |  | **Against** |  | **Abstained** |  | **Nonvotes** |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Dr. Sehat Sutardja | 97,195,844 |  | — | 10,251,155 | |  | — |  |
|  | Weili Dai | 97,195,844 |  | — | 10,251,155 | |  | — |  |
|  | Dr. Pantas Sutardja | 97,195,844 |  | — | 10,251,155 | |  | — |  |

Other directors whose term of office as a director continued after the Annual General Meeting were Diosdado P. Banatao, Manuel Alba, Kuo Wei (Herbert) Chang, John M Cioffi, Paul R. Gray and Ronald D. Verdoorn.

1. To re-appoint PricewaterhouseCoopers LLP as our independent auditors for our 2004 fiscal year ending January 31, 2004 and to authorize the Board to fix the auditors remuneration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Votes** |  | **Votes** |  | **Votes** |  | **Broker** |
| **For** |  | **Against** |  | **Abstained** |  | **Nonvotes** |
|  |  |  |  |  |  |  |
| 106,830,011 | 616,980 | |  | — |  | — |

1. To approve an amendment to the Company’s 2000 Employee Stock Purchase Plan.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Votes** |  | **Votes** |  | **Votes** |  | **Broker** |
| **For** |  | **Against** |  | **Abstained** |  | **Nonvotes** |
|  |  |  |  |  |  |  |
| 56,289,833 | 33,128,421 | | 9,229 | |  | — |

1. To approve the Company’s Amended and Restated 1995 Stock Option Plan.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Votes** |  | **Votes** |  | **Votes** |  | **Broker** |
| **For** |  | **Against** |  | **Abstained** |  | **Nonvotes** |
|  |  |  |  |  |  |  |
| 48,635,828 | 40,685,173 | | 106,482 | |  | — |

**Item 5. *Other Information***

Not applicable.

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**Item 6. *Exhibits and Reports on Form 8-K***

1. The following exhibits are filed as part of this report:

|  |  |
| --- | --- |
| 10.19 | Amended 2000 Employee Stock Purchase Plan |
| 10.20 | Amended and Restated 1995 Stock Option Plan |
| 31.1 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes- |
|  | Oxley Act of 2002 of Dr. Sehat Sutardja Ph.D., Chief Executive Officer |
| 31.2 | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes- |
|  | Oxley Act of 2002 of George A. Hervey, Chief Financial Officer |
| 32.1\* | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes- |
|  | Oxley Act of 2002 of Dr. Sehat Sutardja Ph.D., Chief Executive Officer |
| 32.2\* | Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes- |
|  | Oxley Act of 2002 of George A. Hervey, Chief Financial Officer |



* The certifications filed as Exhibits 32.1 and 32.2 and hereto are not deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934 and are not to be incorporated by reference into any filing of the Company under the Securities Exchange Act of 1933 or the Securities Exchange Act of 1934, whether made before or after the date hereof and irrespective of any general incorporation by reference language contained in any such filing, except to the extent that the registrant specifically incorporates it by reference.

1. Reports on Form 8-K:

On May 22, 2003, we furnished a current report on Form 8-K under Item 9 in connection with the issuance of a press release dated May 22, 2003 announcing our financial results for the first quarter of fiscal 2004. The press release was furnished as an exhibit under Item 7.

On May 27, 2003, we furnished a current report on Form 8-K under Item 9 in connection with the conference call script dated May 22, 2003 to discuss our financial results for the first quarter of fiscal 2004. The conference call script was furnished as an exhibit under Item 7.

On June 27, 2003, we filed a current report on Form 8-K under Item 5 in connection with the issuance of a press release announcing the closing of our acquisition of RADLAN Computer Communications Ltd. The press release was filed as an exhibit under Item 7.

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**SIGNATURES**

Pursuant to the requirements 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.

|  |  |  |
| --- | --- | --- |
|  | MARVELL TECHNOLOGY GROUP LTD. | |
| September 15, 2003 | By: /s/ GEORGE A. HERVEY | |
|  |  |  |
| Date |  | George A. Hervey |
|  |  | Vice President and Chief Financial Officer |
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|  |  |  | **EXHIBIT INDEX** |
| **Exhibit** |  |  |  |
| **Number** |  |  | **Description** |
|  |  |  | |
| 10.19 | Amended 2000 Employee Stock Purchase Plan | | |
| 10.20 | Amended and Restated 1995 Stock Option Plan | | |
| 31.1 | Certification Pursuant to 18 | | U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 of Dr. Sehat |
|  | Sutardja Ph.D., Chief Executive Officer | | |
| 31.2 | Certification Pursuant to 18 | | U.S.C. Section 1350, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 of George A. |
|  | Hervey, Chief Financial Officer | | |
| 32.1\* | Certification Pursuant to 18 | | U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 of Dr. Sehat |
|  | Sutardja Ph.D., Chief Executive Officer | | |
| 32.2\* | Certification Pursuant to 18 | | U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 of George A. |
|  | Hervey, Chief Financial Officer | | |



* The certifications filed as Exhibits 32.1 and 32.2 and hereto are not deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934 and are not to be incorporated by reference into any filing of the Company under the Securities Exchange Act of 1933 or the Securities Exchange Act of 1934, whether made before or after the date hereof and irrespective of any general incorporation by reference language contained in any such filing, except to the extent that the registrant specifically incorporates it by reference.

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**EXHIBIT 10.19**

**MARVELL TECHNOLOGY GROUP LTD.**

**AMENDED**

**2000 EMPLOYEE STOCK PURCHASE PLAN**

**(As amended through May 7, 2003)**

1. Purpose. This Plan is intended to allow Employees of the Company and its Designated Subsidiaries to purchase Common Stock through accumulated Payroll deductions.
2. Defined Terms. The meanings of defined terms (generally, capitalized terms) in this Plan are provided in Section 23 (“Glossary”).
3. Eligibility.
   1. Participation. Any person who is an Employee on an Offering Date shall be eligible to participate in this Plan during the corresponding Offering Period.
   2. No Participation by Five-Percent Stockholders. Notwithstanding Section 3(a), an Employee shall not participate in this Plan during an Offering Period if immediately after the grant of a Purchase Right on the Offering Date, the Employee (or any other person whose stock would be attributed to the Employee under Section 424(d) of the Code) would own stock possessing five percent or more of the total combined voting power or value of all classes of stock of the Company or of any Subsidiary. For this purpose, an Employee is treated as owning stock that he or she could purchase by exercise of Purchase Rights or other options.
4. Offering Periods. Except as otherwise determined by the Administrator:
   1. the first Offering Period under this Plan shall begin on the first business day before the effective date of a firmly underwritten initial public offering of Common Stock and shall end on the last trading day of January of the second succeeding calendar year;
   2. a new Offering Period shall begin on the first business day of each February and August while this Plan is in effect;
   3. the duration of each Offering Period (other than the first Offering Period) shall be 24 months (measured from the first business day of the first month to the last business day of the 24th month); and
   4. an Offering Period shall terminate on the first date that no Participant is enrolled in it.
5. Participation.
   1. An Employee may become a Participant in this Plan by completing a subscription agreement, in such form as the Administrator may approve from time to time, and delivering it to



the Administrator by 1 p.m. Pacific time on the applicable Offering Date, unless another time for filing the subscription agreement is set by the Administrator for all Employees with respect to a given Offering Period. The subscription agreement shall authorize Payroll deductions pursuant to this Plan and shall have such other terms as the Administrator may specify from time to time.

* 1. At the end of an Offering Period, each Participant in the Offering Period who remains an Employee shall be automatically enrolled in the next

succeeding Offering Period (a “Re-enrollment”) unless, in a manner and at a time specified by the Administrator, but in no event later than 1 p.m. Pacific time on the Offering Date of such succeeding Offering Period, the Participant notifies the Administrator in writing that the Participant does not wish to be re-enrolled. Re-enrollment shall be at the withholding percentage specified in the Participant’s most recent subscription agreement. No Participant shall be automatically re-enrolled whose participation has terminated by operation of Section 10.

* 1. If the fair market value of the Common Stock on any Offering Date is less it was on the first day of a then-concurrent Offering Period, each Participant in the concurrent Offering Period shall automatically be withdrawn from such concurrent Offering Period and shall become a Participant in the commencing Offering Period. Participation shall be at the withholding percentage specified in the Participant’s most recent (as of 1 p.m. Pacific time on the relevant Offering Date) subscription agreement. No Participant shall be automatically re-enrolled whose participation in this Plan has terminated by operation of Section 10.

1. Payroll Deductions.
   1. Payroll deductions under this Plan shall be in whole percentages, from a minimum of 1% up to a maximum (not to exceed 20%) established by the Administrator from time to time, as specified by the Participant in his or her subscription agreement in effect on the first day of an Offering Period. Payroll deductions for a Participant shall begin with the first payroll payment date of the Offering Period and shall end with the last payroll payment date of the Offering Period, unless sooner terminated by the Participant as provided in Section 10.
   2. A Participant’s Payroll deductions shall be credited to his or her account under this Plan. A Participant may not make any additional payments into his or her account.
   3. A Participant may reduce his or her Payroll deductions by any whole percentage (but not below 1%) at any time during an Offering Period, effective

15 days after the Participant files with the Administrator a new subscription agreement authorizing the change. A Participant may change his or her Payroll deductions during an Offering Period, effective the first business day after a Purchase Date, by delivering a new subscription agreement authorizing the change to the Administrator by 1 p.m. Pacific time on the effective date of the increase.

1. Purchase Rights.
   1. Grant of Purchase Rights. On the Offering Date of each Offering Period, the Participant shall be granted a Purchase Right to purchase during the Offering Period the number of shares of Common Stock determined by dividing (i) $25,000 multiplied by the number of (whole or part)

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calendar years in the Offering Period by (ii) the fair market value of a share of Common Stock on the Offering Date.

1. Terms of Purchase Rights. Except as otherwise determined by the Administrator, each Purchase Right shall have the following terms:
   * 1. The per-share price of the shares subject to a Purchase Right shall be 85% of the lower of the fair market values of a share of Common Stock on
   1. the Offering Date on which the Purchase Right was granted and (b) the Purchase Date. The fair market value of the Common Stock on a given date shall be the closing price as reported in the Wall Street Journal; provided, however, that if there is no public trading of the Common Stock on that date, then fair market value shall be determined by the Administrator in its discretion.
      1. Payment for shares purchased by exercise of Purchase Rights shall be made only through Payroll deductions under Section 6.
      2. Upon purchase or disposition of shares acquired by exercise of a Purchase Right, the Participant shall pay, or make provision satisfactory to the Administrator for payment of, all tax (and similar) withholdings that the Administrator determines, in its discretion, are required due to the acquisition or disposition, including without limitation any such withholding that the Administrator determines in its discretion is necessary to allow the Company and its Subsidiaries to claim tax deductions or other benefits in connection with the acquisition or disposition.
      3. During his or her lifetime, a Participant’s Purchase Right is exercisable only by the Participant.
      4. Purchase Rights will in all respects be subject to the terms and conditions of this Plan, as interpreted by the Administrator from time to time.
2. Purchase Dates; Purchase of Shares; Refund of Excess Cash.
   1. The Administrator shall establish one or more Purchase Dates for each Offering Period. Unless otherwise determined by the Administrator, the last trading day of each January and July in an Offering Period shall be a Purchase Date.
   2. Except as otherwise determined by the Administrator, and subject to subsection (c), below, each then-outstanding Purchase Right shall be exercised automatically on each Purchase Date, following addition to the Participant’s account of that day’s Payroll deductions, to purchase the maximum number of full shares of Common Stock at the applicable price using the Participant’s accumulated Payroll deductions.
   3. If on a Purchase Date the fair market value of the Common Stock is less than 75% of the fair market value of the Common Stock on the immediately preceding Purchase Date

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(whether or not such preceding Purchase Date is in the same Offering Period) (the “Benchmark Date”), then (except as otherwise determined by the

Administrator):

* + 1. the maximum number of shares that a Participant may purchase on the Purchase Date shall be determined by multiplying the fair market value of the Common Stock on the Benchmark Date by 0.6375 and then dividing the Participant’s accumulated Payroll deductions by the result;
    2. a maximum number of shares established pursuant to the clause (i) shall remain the maximum number of shares purchasable by a Participant on any subsequent Purchase Date until the Purchase Date on which the fair market value of the Common Stock is at least 75% of the fair market value of the Common Stock on the Benchmark Date; and
    3. notwithstanding the foregoing, during the initial Offering Period under this Plan, the Benchmark Date shall be date of the beginning such Offering Period.
  1. The shares purchased upon exercise of a Purchase Right shall be deemed to be transferred to the Participant on the Purchase Date.

1. Registration and Delivery of Share Certificates.
   1. Shares purchased by a Participant under this Plan will be registered in the name of the Participant, or in the name of the Participant and his or her spouse, or in the name of the Participant and joint tenant(s) (with right of survivorship), as designated by the Participant.
   2. As soon as administratively feasible after each Purchase Date, the Company shall deliver to the Participant a certificate representing the shares purchased upon exercise of a Purchase Right. If approved by the Administrator in its discretion, the Company may instead (i) deliver a certificate (or equivalent) to a broker for crediting to the Participant’s account or (ii) make a notation in the Participant’s favor of non-certificated shares on the Company’s stock records.
2. Withdrawal; Termination of Employment.
   1. A Participant may withdraw all, but not less than all, the Payroll deductions credited to his account under this Plan before a Purchase Date by giving written notice to the Administrator, in a form the Administrator prescribes from time to time, at least 15 days before the Purchase Date. Payroll deductions will then cease as to the Participant, no purchase of shares will be made for the Participant on the Purchase Date, and all Payroll deductions then credited to the Participant’s account will be refunded promptly.
   2. Upon termination of a Participant’s Continuous Employment for any reason, including retirement or death, all Payroll deductions credited to the Participant’s account will be promptly refunded to the Participant or, in the case of death, to the person or persons entitled thereto under Section 14, and the Participant’s Purchase Right will automatically terminate.

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* 1. A Participant’s withdrawal from an offering will not affect the Participant’s eligibility to participate in a succeeding offering or in any similar plan that may be adopted by the Company.

1. Use of Funds; No Interest. Amounts withheld from Participants under this Plan shall constitute general funds of the Company, may be used for any corporate purpose, and need not be segregated from other funds. No interest shall accrue on a Participant’s Payroll deductions.
2. Number of Shares Reserved.
   1. The following numbers of shares of Common Stock are reserved for issuance under this Plan, and such number may be issued at any time before termination of this Plan:
      1. As of May 7, 2003, 2,500,000 shares of Common Stock; and
      2. Beginning the first business day of each calendar year starting January 1, 2004 or after, the lesser of an additional (A) 2,000,000 shares of Common Stock or (B) 1.5% of the outstanding shares of capital stock on such date.
   2. If the total number of shares that would otherwise be subject to Purchase Rights granted on an Offering Date exceeds the number of shares then available under this Plan (after deduction of all shares for which Purchase Rights have been exercised or are then exercisable), the Administrator shall make a pro-rata allocation of the available shares in a manner that it determines to be as uniform and equitable as practicable. In such event, the Administrator shall give written notice of the reduction and allocation to each Participant.
   3. The Administrator may, in its discretion, transfer shares reserved for issuance under this Plan into a plan or plans of similar terms, as approved by the Board, providing for the purchase of shares of Common Stock to employees of Subsidiaries designated by the Board that do not (or do not thereafter) participate in this Plan. Such additional plans may, without limitation, provide for variances from the terms of this Plan to take into account special circumstances (such as foreign legal restrictions) affecting the employees of the designated Subsidiaries.
3. Administration. This Plan shall be administered by the Board or by such directors, officers, and employees of the Company as the Board may select from time to time (the “Administrator”). All costs and expenses incurred in administering this Plan shall be paid by the Company, provided that any taxes applicable to an Employee’s participation in this Plan may be charged to the Employee by the Company. The Administrator may make such rules and regulations as it deems necessary to administer this Plan and to interpret any provision of this Plan. Any determination, decision, or action of the Administrator in connection with the construction, interpretation, administration, or application of this Plan or any right granted under this Plan shall be final, conclusive, and binding upon all persons, and no member of the Administrator shall be liable for any such determination, decision, or action made in good faith.

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1. Designation of Beneficiary.
   1. A Participant may file a written designation of a beneficiary who is to receive any shares and cash, if any, from the Participant’s account under this Plan in the event of the Participant’s death.
   2. A designation of beneficiary may be changed by the Participant at any time by written notice. In the event of the death of a Participant, and in the absence of a beneficiary validly designated under this Plan who is living at the time of the Participant’s death, the Administrator shall deliver such shares and/or cash to the executor or administrator of the Participant’s estate, or if no such executor or administrator has been appointed (to the Administrator’s knowledge), the Administrator, in its discretion, may deliver such shares and/or cash to the spouse or to any one or more dependents or relatives of the Participant or, if no spouse, dependent, or relative is known to the Administrator, then to such other person as the Administrator may designate.
2. Transferability. Neither Payroll deductions credited to a Participant’s account nor any rights with regard to the exercise of a Purchase Right or to receive shares under this Plan may be assigned, transferred, pledged, or otherwise disposed of in any way (other than by will, the laws of descent and distribution, or as provided in Section 14) by the Participant. Any such attempt at assignment, transfer, pledge, or other disposition shall be without effect, except that the Administrator may treat such act as an election to withdraw funds in accordance with Section 10.
3. Reports. Individual accounts will be maintained for each Participant in this Plan. Statements of account will be given to participating Employees promptly following each Purchase Date, setting forth the amounts of Payroll deductions, per-share purchase price, number of shares purchased, and remaining cash balance, if any.
4. Adjustments upon Changes in Capitalization.
   1. Subject to any required action by the stockholders of the Company, the number of shares of Common Stock covered by each unexercised Purchase Right and the number of shares of Common Stock authorized for issuance under this Plan but not yet been placed under a Purchase Right (collectively, the “Reserves”), as well as the price per share of Common Stock covered by each unexercised Purchase Right, shall be proportionately adjusted for any change in the number of issued shares of Common Stock resulting from a stock split, reverse stock split, stock dividend, combination or reclassification of the Common Stock, or any change in the number of shares of Common Stock effected without receipt of consideration by the Company (not counting shares issued upon conversion of convertible securities of the Company as “effected without receipt of consideration”). Such adjustment shall made by the Board and shall be final, binding, and conclusive. Except as expressly provided herein, no issue by the Company of shares of stock of any class, or securities convertible into shares of stock of any class, shall affect, and no consequent adjustment shall be made with respect to, the number or price of shares of Common Stock subject to a Purchase Right.
   2. In the event of the proposed dissolution or liquidation of the Company, the then-current Offering Period will terminate immediately before the consummation of the proposed

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action, unless otherwise provided by the Board. In the event of a proposed sale of all or substantially all of the Company’s assets, or the merger of the Company with or into another corporation (if the Company’s stockholders own less than 50% of the total outstanding voting power in the surviving entity or a parent of the surviving entity after the merger), each Purchase Right under this Plan shall be assumed or an equivalent purchase right shall be substituted by the successor corporation or a parent or subsidiary of the successor corporation, unless the successor corporation does not agree to assume the Purchase Rights or to substitute equivalent purchase rights, in which case the Board may, in lieu of such assumption or substitution, accelerate the exercisability of Purchase Rights and allow Purchase Rights to be exercisable as to shares as to which they would not otherwise be exercisable, on terms and for a period that the Board determines in its discretion. To the extent that the Board accelerates exercisability of Purchase Rights as described above, it shall promptly so notify all Participants in writing.

* 1. The Board may, in its discretion, also make provision for adjusting the Reserves, as well as the price per share of Common Stock covered by each outstanding Purchase Right, if the Company effects one or more reorganizations, recapitalizations, rights offerings, or other increases or reductions of shares of its outstanding Common Stock, or if the Company consolidates with or merges into any other corporation, in a transaction not otherwise covered by this Section 17.

1. Amendment or Termination.
   1. The Board may at any time terminate or amend this Plan. No amendment may be made without prior approval of the stockholders of the Company (obtained in the manner described in Section 20) if it would increase the number of shares that may be issued under this Plan.
   2. The Board may elect to terminate any or all outstanding Purchase Rights at any time, except to the extent that exercisability of such Purchase Rights has been accelerated pursuant to Section 17(b). If this Plan is terminated, the Board may also elect to terminate Purchase Rights upon completion of the purchase of shares on the next Purchase Date or to permit Purchase Rights to expire in accordance with their terms (with participation to continue through such expiration dates). If Purchase Rights are terminated before expiration, any funds contributed to this Plan that have not been used to purchase shares shall be refunded to Participants as soon as administratively feasible.
2. Notices. All notices or other communications by a Participant to the Company or the Administrator under or in connection with this Plan shall be deemed to have been duly given when received in the form specified by the Administrator at the location, or by the person, designated by the Administrator for that purpose.
3. Stockholder Approval. This Plan shall be submitted to the stockholders of the Company for their approval within 12 months after the date this Plan is adopted by the Board.
4. Conditions upon Issuance of Shares.

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* 1. Shares shall not be issued with respect to a Purchase Right unless the exercise of such Purchase Right and the issuance and delivery of such shares pursuant thereto complies with all applicable provisions of law, domestic or foreign, including, without limitation, the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended, the rules and regulations promulgated thereunder, and the requirements of any stock exchange upon which the shares may then be listed, and shall be further subject to the approval of counsel for the Company with respect to such compliance.
  2. As a condition to the exercise of a Purchase Right, the Company may require the person exercising such Purchase Right to represent and warrant at the time of any such exercise that the shares are being purchased only for investment and without any present intention to sell or distribute such shares if, in the opinion of counsel for the Company, such a representation is required by any of the aforementioned applicable provisions of law.

1. Term of Plan. This Plan shall become effective upon the earlier of its adoption by the Board or its approval by the stockholders of the Company as described in Section 20. It shall continue in effect for a term of 20 years unless sooner terminated under Section 18.
2. Glossary. The following definitions apply for purposes of this Plan:
   1. “Administrator” means the Board or the persons appointed by the Board to administer this Plan pursuant to Section 13.
   2. “Board” means the Board of Directors of the Company.
   3. “Code” means the Internal Revenue Code of 1986, as amended.
   4. “Common Stock” means the Common Stock of the Company.
   5. “Company” means Marvell Technology Group Ltd., a Bermuda corporation.
   6. “Continuous Employment” means the absence of any interruption or termination of service as an Employee. Continuous Employment shall not be considered interrupted in the case of a leave of absence agreed to in writing by the Company, provided that either (i) the leave does not exceed 90 days or (ii) re-employment upon expiration of the leave is guaranteed by contract or statute.
   7. “Designated Subsidiaries” means the Subsidiaries that have been designated by the Board from time to time in its sole discretion to participate in this

Plan.

* 1. “Employee” means any person, including an officer, who is customarily employed for at least 20 hours per week and five months per year by the Company or one of its Designated Subsidiaries. Whether an individual qualifies as an Employee shall be determined by the Administrator, in its sole discretion, by reference to Section 3401(c) of the Code and the regulations promulgated thereunder; unless the Administrator makes a contrary determination,

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the Employees of the Company shall, for all purposes of this Plan, be those individuals who satisfy the customary employment criteria set forth above and are carried as employees by the Company or a Designated Subsidiary for regular payroll purposes.

(i) “Offering Date” means the first business day of an Offering Period.

1. “Offering Period” means a period established by the Administrator pursuant to Section 4 during which Payroll deductions are accumulated from Participants and applied to the purchase of Common Stock.
2. “Participant” means an Employee who has elected to participate in this Plan pursuant to Section 5.
3. “Payroll” means all regular, straight-time gross earnings, exclusive of payments for overtime, shift premium, incentive compensation or payments, bonuses, and commissions.
4. “Plan” means this Marvell Technology Group Ltd. 2000 Employee Stock Purchase Plan.
5. “Purchase Date” means such business days during each Offering Period as may be established by the Administrator for the purchase of Common Stock pursuant to Section 8.
6. “Purchase Right” means a right to purchase Common Stock granted pursuant to Section 7.
7. “Subsidiary” means, from time to time, any corporation, domestic or foreign, of which not less than 50% of the voting shares are held by the Company or another Subsidiary of the Company.

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**EXHIBIT 10.20**

**MARVELL TECHNOLOGY GROUP LTD.**

**AMENDED AND RESTATED**

**1995 STOCK OPTION PLAN**

**(As amended through May 7, 2003)**

* 1. Purpose. This Plan is intended to attract and retain the best available individuals as Employees, Consultants and Outside Directors of the Company and its Subsidiaries, to provide additional incentives to those Employees, Consultants and Outside Directors, and to promote the success of the Company’s business.
  2. Defined Terms. The meanings of defined terms (generally, capitalized terms) in this Plan are provided in Section 21 (“Glossary”).
  3. Shares Reserved. Subject to Section 14, Shares that may be issued with respect to Awards granted under the Plan shall not exceed an aggregate of 60,260,394 Shares of Common Stock; provided however, that on the first business day of each fiscal year starting January 31, 2004 or after, and continuing until the earlier of January 31, 2013 or termination of the Plan, there shall be added to this Plan the lesser of an additional (i) 10,000,000 shares of Common Stock, or

1. 5.0% of the outstanding shares of capital stock on such date. The Shares may be authorized, but unissued, or reacquired Common Stock. If an Award under the Plan expires or becomes unexercisable for any reason, the Shares subject to such Award which have not been issued shall be available for future issuance under this Plan. Shares retained to satisfy tax withholding obligations do not reduce the number authorized for issuance.
   1. Administration.
2. In General. This Plan shall be administered by the Board or a Committee appointed by the Board. Once appointed, a Committee shall serve until otherwise directed by the Board. From time to time, the Board may increase the size of the Committee and appoint additional members, remove members (with or without cause) and appoint new members in their stead, fill vacancies however caused, and terminate the Committee and thereafter directly administer this Plan.
3. Committee Composition*.* The Board may provide for administration of this Plan with respect to Officers and directors of the Company by a Committee constituted so as to satisfy:
   1. such requirements as the Securities and Exchange Commission may establish for administrators acting under plans intended to qualify for exemption under Rule 16b-3 (or its successor) under the Exchange Act; and
   2. such requirements as the Internal Revenue Service may establish for Outside Directors acting under plans intended to qualify for exemption under Section 162(m)(4)(C) of the Code.



A Committee appointed under this Section 4(b) may be separate from any Committee appointed to administer this Plan with respect to Employees who are neither Officers nor directors. Within the limitations of this Section 4(b), any reference in the Plan to the Committee shall include such committee or committees appointed pursuant to this Section 4.

1. Powers of the Administrator. Subject to the provisions of this Plan and in the case of a Committee, subject to the specific duties delegated by the Board, the Administrator shall have the authority, in its sole and absolute discretion:
   1. to determine the Fair Market Value of the Common Stock;
   2. to grant Awards to such Consultants, Outside Directors and Employees as it selects; provided, however, that notwithstanding any other provision of the Plan, grants of Awards to Outside Directors shall be limited to grants of Options upon initial appointment to the Board, and such Awards shall be subject to ratification by the Board;
   3. to determine the terms and conditions of each Award granted, including without limitation the number of Shares subject to each Award, the exercise price per Share of Optioned Stock, and whether an Option is to be granted as an ISO or a NSO;
   4. to approve forms of agreement for use under this Plan;
   5. to determine whether and under what circumstances to offer to buy out an Option for cash or Shares under Section 12;
   6. to modify grants of Awards to participants who are foreign nationals or employed outside of the United States in order to recognize differences in local law, tax policies, or customs; and
   7. to construe and interpret the terms of this Plan and of each Award granted pursuant to this Plan.
2. Administrator’s Decisions Binding. All decisions, determinations, and interpretations of the Administrator shall be final and binding on all Grantees and any other holders of any Awards, and no member of the Administrator shall be liable for any such determination, decision, or interpretation made in good faith.
3. Eligibility.
4. General. Nonstatutory Stock Options may be granted to Employees, Consultants and Outside Directors. Incentive Stock Options may be granted only to Employees. Other Awards may be granted to Employees and Consultants. An Employee or Consultant who has been granted an Award may, if otherwise eligible, be granted additional Awards.

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1. Limitations.
   1. While the Company or a successor has outstanding any class of equity securities required to be registered under Section 12 of the Exchange Act, the following limitations shall apply to grants of Awards to Employees:
   2. No Employee shall be granted, in any fiscal year of the Company, Awards with respect to more than 1,000,000 Shares, in the aggregate, adjusted proportionately in connection with any change in the Company’s capitalization as described in Section 14. If an Award is granted but canceled in the same fiscal year, it shall nonetheless count against the foregoing limit. Reduction of an Option’s exercise price is treated as a cancellation of the Option and the grant of a new Option.
2. Term of Options. The term of each Option shall be determined by the Administrator at the time of grant but shall not exceed ten years. In the case of an ISO granted to an Optionee who, at the time of grant, owns stock representing more than ten percent of the voting power of all classes of stock of the Company or any Parent or Subsidiary, the Option term shall not exceed five years.
3. Date of Option Grant. Unless otherwise determined by the Administrator, the date of grant of an Option shall be the date on which the Administrator completes the actions necessary to grant the Option. Notice of the grant shall be given to the Optionee within a reasonable time after the date of the grant.
4. Option Exercise Price and Form of Consideration.
5. Price. The per-Share exercise price of an Option shall be determined by the Administrator at the time of grant, but:
   1. In the case of an ISO:
      1. granted to an Employee who, at the time of grant, owns stock representing more than ten percent of the voting power of all classes of stock of the Company or any Parent or Subsidiary, the per-Share exercise price shall be at least 110% of the Fair Market Value on the date of grant; or
      2. granted to any other Employee, the per-Share exercise price shall be at least the Fair Market Value on the date of grant.
   2. In the case of a NSO, the per-Share exercise price shall be at least the Fair Market Value on the date of grant.
6. Form of Payment. Payment for Shares upon exercise of an Option shall be made in any lawful consideration approved by the Administrator and may, without limitation, consist of (1) cash, (2) check, (3) other Shares that have a Fair Market Value on the date of payment equal to the aggregate exercise price of the Shares as to which Option is exercised; provided, however, that the Optionee shall not surrender, or attest to the ownership of, Shares in payment of the

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Exercise Price if such action would cause the Company to recognize compensation expense (or additional compensation expense) with respect to the Option for financial reporting purposes, (4) delivery by a broker or brokerage firm approved by the Administrator of a properly executed exercise notice together with payment of the exercise price and such other documentation as the Administrator shall require, or (5) any combination of the foregoing. Notwithstanding the foregoing, a form of payment shall not be available if the Administrator determines, in its sole and absolute discretion, that such form of payment could violate any law or regulation.

1. Option Exercise.
   1. Exercisability. Each Option shall be exercisable at such times and under such conditions as determined by the Administrator at the time of grant.
   2. Vesting. Each Option and the corresponding Optioned Stock shall vest at such times and under such conditions as determined by the Administrator at the time of grant, and as are otherwise permissible under the terms of this Plan, including without limitation, performance criteria with respect to the Company and/or the Optionee.
   3. Fractional Shares. An Option may not be exercised for a fraction of a Share.
   4. Manner of Exercise; Rights as a Shareholder. Unless otherwise allowed by the Administrator, an Option shall be exercised by delivery to the Company of all of the following: (i) written notice of exercise by the Optionee, in a form approved by the Administrator and in accordance with the terms of the Option,
2. full payment for the Shares with respect to which the Option is exercised, and (iii) payment (or provision for payment) of withholding taxes pursuant to Subsection (g), below. Delivery of any of the foregoing may be by electronic means approved by the Administrator. The Optionee shall be treated as a shareholder of the Company with respect to the purchased Shares upon completion of exercise of the Option.
   1. Optionee Representations. If Shares purchasable pursuant to the exercise of an Option have not been registered under the Securities Act of 1933, as amended, at the time the Option is exercised, the Optionee shall, if required by the Administrator, as a condition to exercise of all or any portion of the Option, deliver to the Company an investment representation statement in a form approved by the Administrator.
   2. Termination of Employment or Consulting Relationship. If an Optionee’s Continuous Service terminates, the Optionee (or the Optionee’s estate or heirs, if termination is due to death or the Optionee dies during the post-termination exercise period of the Option) may exercise the Option, (i) only within such period of time as is determined by the Administrator (but no later than the expiration date for the Option determined by the Administrator at the time of grant) and the Option shall terminate at the end of that period, and (ii) unless otherwise determined by the Administrator, only to the extent that the Optionee was entitled to exercise it at the date of termination.
   3. Tax Withholding. The Company’s obligation to deliver Shares upon exercise of an Option is subject to payment (or provision for payment satisfactory to the Administrator) by the

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Optionee of all federal, state, and local income and employment taxes that the Administrator determines in its discretion to be due as a result of the exercise of the Option or sale of the Shares.

1. Rule 16b-3. Except to the extent determined by the Administrator, Awards granted to persons subject to Section 16(b) of the Exchange Act shall comply with Rule 16b-3 and shall contain such terms as may be required or desirable to qualify Plan transactions for the maximum exemption from Section 16 of the Exchange Act.
2. Non-Transferability of Options. Options may not be sold, pledged, assigned, hypothecated, transferred, or disposed of in any manner other than by will or by the laws of descent or distribution and may be exercised, during the lifetime of the Optionee, only by the Optionee.
3. Buyout of Options. The Administrator may at any time offer to buy out an Option for a payment in cash or Shares, based on such terms and conditions as the Administrator shall establish and communicate to the Optionee at the time of the offer.
4. Other Awards. The Administrator may from time to time grant other stock-based awards to eligible Employees and Consultants in such amounts, on such terms and conditions, and for such consideration, including no consideration or such minimum consideration as may be required by law, as it shall determine and set forth in the applicable Grant Agreement, including without limitation the following:
5. Stock Appreciation Rights*.* The Administrator may from time to time grant Awards of stock appreciation rights (“SAR”). An SAR entitles the Grantee to receive, subject to the provisions of the Plan and the Grant Agreement, a payment having an aggregate value equal to the product of (i) the excess of (A) the Fair Market Value on the exercise date of one share of Common Stock over (B) the base price per share specified in the Grant Agreement, times (ii) the number of shares specified by the SAR, or portion thereof, which is exercised. Payment by the Company of the amount receivable upon any exercise of an SAR may be made by the delivery of Common Stock or cash, or any combination of Common Stock and cash, as determined in the sole discretion of the Administrator. If upon settlement of the exercise of an SAR a Grantee is to receive a portion of such payment in shares of Common Stock, the number of shares shall be determined by dividing such portion by the Fair Market Value of a share of Common Stock on the exercise date. No fractional shares shall be used for such payment and the Administrator shall determine whether cash shall be given in lieu of such fractional shares or whether such fractional shares shall be eliminated.
6. Stock Awards. The Administrator may from time to time grant restricted or unrestricted Awards of Common Stock in such amounts, on such terms and conditions, and for such consideration, including no consideration or such minimum consideration as may be required by law, as it shall determine.
7. Stock Units*.* The Administrator may from time to time grant Awards denominated in stock-equivalent units (“stock units”) in such amounts and on such terms and conditions as it

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shall determine. Stock units shall be credited to a bookkeeping reserve account solely for accounting purposes and shall not require a segregation of any of the Company’s assets. An Award of stock units may be settled in Common Stock, in cash, or in a combination of Common Stock and cash, as determined in the sole discretion of the Administrator. Except as otherwise provided in the applicable Grant Agreement, the Grantee shall not have the rights of a stockholder with respect to any shares of Common Stock represented by a stock unit solely as a result of the grant of a stock unit to the Grantee.

1. Performance Awards. The Administrator may, in its discretion, grant performance awards which become payable on account of attainment of one or more performance goals established by the Administrator. Performance awards may be paid by the delivery of Common Stock or cash, or any combination of Common Stock and cash, as determined in the sole discretion of the Administrator. Performance goals established by the Administrator may be based on one or more business criteria selected by the Administrator that apply to an individual or group of individuals, a business unit, or the Company as a whole, over such performance period as the Administrator may designate.
2. Other Stock-Based Awards*.* The Administrator may grant other stock-based awards may be denominated in cash, in Common Stock or other securities, in stock-equivalent units, in stock appreciation units, in securities or debentures convertible into Common Stock, or in any combination of the foregoing and may be paid in Common Stock or other securities, in cash, or in a combination of Common Stock or other securities and cash, all as determined in the sole discretion of the Administrator.
3. Deferral of Awards.

The Administrator (in its sole discretion) may provide that Shares or cash that otherwise would be delivered to a Grantee as a result of the exercise of an Option or other settlement of an Award may be converted into amounts credited to a deferred compensation account established for such Grantee by the Administrator as an entry on the Company’s books. A deferred compensation account established under this Section 13(f) may be credited with interest or other forms of investment return, as determined by the Administrator. A Grantee for whom such an account is established shall have no rights other than those of a general creditor of the Company. Such an account shall represent an unfunded and unsecured obligation of the Company and shall be subject to the terms and conditions of the applicable Grant Agreement between such Participant and the Company. The Administrator (in its sole discretion) shall establish Grant rules, procedures and forms pertaining to any deferral of Awards pursuant to this Section 13(f).

1. Changes in Capitalization or Control.
2. Changes in Capitalization. Subject to any required action by the shareholders of the Company, the number of Shares of Optioned Stock or of other Shares subject to an outstanding Award, and the number of Shares that have been authorized for issuance under this Plan but as to which no Options or other Awards have then been granted (including the number of shares automatically added to the Plan on an annual basis as provided for in Section 3(i) and (ii)), or that

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have been returned to this Plan upon cancellation or expiration of an Option or an Award, as well as the price per Share of Optioned Stock or of other Shares subject to an outstanding Award, shall be proportionately adjusted for any change in the number of issued Shares resulting from a stock split, reverse stock split, stock dividend, combination or reclassification of the Common Stock, or any other change in the number of issued Shares effected without receipt of consideration by the Company (not counting Shares issued upon conversion of convertible securities of the Company as “effected without receipt of consideration”). Such adjustment shall be made by the Board and shall be final, binding, and conclusive. Except as expressly provided herein, no issuance by the Company of shares of stock of any class, or securities convertible into shares of stock of any class, shall affect, and no consequent adjustment shall be made with respect to, the number or price of Shares subject to this Plan.

1. Change in Control. The Administrator may, in its discretion, determine at any time from and after the grant of an Award the effect that a Change in Control shall have upon the Award; provided, however, that a Change in Control shall not have the effect of impairing the rights of any Grantee under any then-outstanding Award without his or her prior written consent. Without limiting the foregoing sentence, the Administrator may determine that upon a Change in Control, an Option:
   1. shall become fully vested and exercisable either for a limited period following the Change in Control or for the remainder of the Option’s term;
   2. shall terminate upon or after a specified period following the Change in Control;
   3. shall be cancelled in exchange for cash in the amount of the excess of the fair market value of the Optioned Shares over the exercise price upon termination; or
   4. shall be treated as provided under a combination of clauses (i) through (iii), or shall be so treated only if not adequately assumed (or substituted for) by a surviving or successor person or entity in the transactions or events that give rise to the Change in Control.

For purposes of this Section 14(b), (A) the occurrence of any of the foregoing clauses (i), (ii), (iii) or (iv) shall not constitute an impairment of the rights of any Optionee and (B) the “Administrator” shall be the Administrator as constituted before the Change in Control occurs.

1. Amendments; Termination. The Board may at any time amend, alter, suspend, discontinue or terminate this Plan, but no such action shall impair the rights of any Grantee under any then-outstanding Award without his or her prior written consent.
2. Securities Regulation Requirements.
3. Compliance with Rule. In general, Shares shall not be issued pursuant to the exercise of an Option or pursuant to any other Award unless the exercise of the Option or other Award

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and issuance of the Shares comply with all relevant provisions of law, including, without limitation, any applicable state securities laws, the Securities Act of 1933, as amended, the Exchange Act, the rules and regulations promulgated thereunder, the requirements of any stock exchange or national market system upon which the Shares may then be listed, and the requirements of any regulatory body having jurisdiction.

1. Optionee Investment Representation. As a condition to the exercise of an Option, the Company may require the person exercising the Option to represent and warrant that the Shares are being purchased only for investment and without any present intention to sell or distribute the Shares if, in the opinion of counsel for the Company, such a representation is required by law.
2. Written Agreements. Awards shall be evidenced by written agreements in a form the Administrator approves from time to time. The written agreement shall designate an Option as either an Incentive Stock Option or a Nonstatutory Stock Option. Delay in executing a written agreement shall not affect the date of grant of an Option; however, an Option may not be exercised until a written agreement has been executed by the Company and the Optionee.
3. Shareholder Approval. This Plan is subject to approval by the shareholders of the Company within 12 months after the Board initially adopts this Plan. Shareholder approval shall be obtained in the degree and manner required under applicable state and federal law and the rules of any stock exchange or national market system upon which the Common Stock is listed.
4. No Employment Rights. This Plan does not confer upon any Grantee any right with respect to continuation of employment or consulting relationship with the Company, nor shall it interfere in any way with the Company’s right to terminate his or her employment or consulting relationship at any time, with or without cause.
5. Term of Plan. This Plan shall become effective upon the earlier to occur of the initial adoption by the Board or initial approval by the shareholders of the Company, as described in Section 18. It shall continue in effect until terminated by the Board pursuant to Section 15, except that no ISOs shall be granted on or after the 10th anniversary of the later of (a) the date when the Board adopted the Plan or (b) the date when the Board adopted the most recent increase in the number of Shares available under Section 3 that was approved by the shareholders of the Company.
6. Glossary. The following definitions apply for purposes of this Plan:
7. “Administrator” means the Board or a committee appointed by the Board under Section 4.
8. “Award” means any stock option, stock appreciation right, stock award, stock units award, performance award, or other stock-based award granted under the Plan.
9. “Board” means the Board of Directors of the Company.
10. “Change in Control” means a change in ownership or control of the Company by any of:

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* 1. a merger or consolidation in which the holders of stock possessing a majority of the voting power in the surviving entity (or a parent of the surviving entity) did not own a majority of the Common Stock immediately before the transaction;
  2. the sale of all or substantially all of the Company’s assets to any other person or entity (other than a Subsidiary);
  3. the liquidation or dissolution of the Company;
  4. the direct or indirect acquisition by any person or related group of persons of beneficial ownership (within the meaning of Rule 13d-3 of the

Exchange Act) of securities possessing more than 50% of the total combined voting power of the Company’s outstanding securities pursuant to a tender or exchange offer made directly to the Company’s shareholders that the Board does not recommend that the shareholders accept, or

* 1. a change in composition of the Board over a period of 36 consecutive months such that a majority of the Board ceases, by reason of one or more contested elections for Board membership, to be composed of individuals who either (A) have been Board members continuously since the beginning of that period or (B) have been elected or nominated for election as Board members during that period by at least a majority of the Board members described in clause (A) who were in office when the Board approved the election or nomination.

1. “Code” means the Internal Revenue Code of 1986, as amended.
2. “Committee” means the committee designated by the Board of Directors, which is authorized to administer the Plan, as described in Section 4 hereof.
3. “Common Stock” means the common stock of the Company.
4. “Company” means Marvell Technology Group Ltd., a Bermuda corporation.
5. “Consultant” means any person, other than an Employee, who is engaged by the Company or any Parent or Subsidiary to perform consulting or advisory services.
6. “Continuous Service” means that an Optionee’s employment and/or consulting relationship with the Company or a Parent or Subsidiary or service as an Outside Director is not interrupted or terminated. Continuous Service is not interrupted by (i) any leave of absence approved by the Company, (ii) transfers between locations of the Company or between the Company, a Parent, a Subsidiary, or any successor, or (iii) changes in status from Employee to Consultant or Outside Director or from Consultant or Outside Director to Employee
7. “Outside Director” means a member of the Board who is not a common law employee of the Company or a Parent or Subsidiary.

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1. “Employee” means any person employed by the Company or any Parent or Subsidiary of the Company.
2. “Exchange Act” means the Securities Exchange Act of 1934, as amended.
3. “Fair Market Value” means, as of any date, the value of common Stock determined as follows:
   1. If the Common Stock is quoted on an established stock exchange or national market system, including without limitation the National Association of Securities Dealers, Inc. Automated Quotation (“NASDAQ”) National Market System, Fair Market Value shall be the closing sales price (or the closing bid, if no sales are reported) as quoted on that exchange or system for the day of the determination, as reported in *The Wall Street Journal* or an equivalent source, or if the determination date is not a trading day, then on the most recent preceding trading day;
   2. If the Common Stock is quoted on NASDAQ (but not on the National Market System) or regularly quoted by a recognized securities dealer but selling prices are not reported, Fair Market Value shall be the mean between the high bid and low asked prices for the Common Stock on the day of the determination, or on the most recent preceding trading day if the determination date is not a trading day; or
   3. In the absence of an established market for the Common Stock, Fair Market Value shall be determined by the Administrator.
4. “Grant Agreement” means a written document memorializing the terms and conditions of an Award granted pursuant to the Plan and shall incorporate the terms of the Plan.
5. “Grantee” means the Employee, Consultant or Outside Director who receives an Award.
6. “Incentive Stock Option” or “ISO” means an Option intended to qualify as an “incentive stock option” within the meaning of, and to the extent otherwise permitted by, Section 422 of the Code.
7. “Nonstatutory Stock Option” or “NSO” means an Option not intended to qualify as an ISO.
8. “Officer” means a person who is an officer of the Company within the meaning of Section 16 of the Exchange Act and the rules and regulations promulgated thereunder.
9. “Option” means a stock option granted pursuant to this Plan.
10. “Optioned Stock” means the Common Stock subject to an Option.

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1. “Optionee” means the Employee, Consultant or Outside Director who receives an Option and includes any person who owns all or any part of an Option, or who is entitled to exercise an Option, after the death or disability of an Optionee.
2. “Parent” means a “parent corporation,” present or future, as defined in Section 424(e) of the Code.
3. “Plan” means this Amended and Restated 1995 Marvell Technology Group Ltd. Stock Option Plan.
4. “Share” means a share of the Common Stock, as adjusted in accordance with Section 14(a).
5. “Subsidiary” means a “subsidiary corporation,” present or future, as defined in Section 424(f) of the Code.

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**APPENDIX TO THE AMENDED AND**

**RESTATED 1995 STOCK OPTION PLAN**

**Of MARVELL TECHNOLOGY GROUP LTD.**

**IN RESPECT OF ISRAELI EMPLOYEES**

1. **Purpose**

The purpose of this appendix is to modify, to the extent set forth herein, the Amended and Restated 1995 Marvell Technology Group Ltd. Stock Option Plan (the “**Plan**”) in respect of the Israeli employees of Marvell Technology Group Ltd. and its affiliates and subsidiaries who are eligible to participate in the Plan in accordance with its terms, in order to reflect the specific requirements of the Israeli law.

1. **Defined Terms**
   1. Capitalized terms used but not defined herein shall have the meanings provided in Section 21 of the Plan.
   2. In addition, in this Appendix, the following terms shall have the meanings set forth beside them:

|  |  |
| --- | --- |
| **“102 Provisions”** | The provisions of section 102 of the Ordinance and of the Income Tax |
|  | Rules (Tax Relief in Allocating Shares to Employees), 5749-1989, as |
|  | they shall apply from time to time on shares and options issued |
|  | hereunder, including the Special Conditions; |
| **“Effective Date”** | The latest of the date the Options were issued or the date of the Income |
|  | Tax Commissioner approval that the Plan satisfies the Special |
|  | Conditions; |
| **“Employer”** | The Company, any of its Subsidiaries or its Parent employing Israeli |
|  | Employees; |
| **“Israeli Employees”** | Employees subject to taxation in Israel; |
| **“Trustee”** | Galileo Technology Ltd., or in the alternate, the Trust Company of |
|  | Investek Bank, or any other trustee who shall replace same by the |
|  | Board for the purposes of this Plan; |
| **“Ordinance”** | The Income Tax Ordinance (New Version), 5721-1961; |
| **“Special Conditions”** | Special conditions set by the Israeli Income Tax Commissioner in |
|  | connection with the issuance of the Options hereunder, by the power |
|  | vested in him/her under section 102 of the Ordinance, if |
|  | 12 |
|  |  |



and to the extent the Commissioner shall so set;

**“Tax Lockup Period”** Two years following the Effective Date or such other period of time in accordance with the 102 Provisions, as they shall be amended from time to time.

* 1. The Israeli Employees shall be entitled to exercise their options in accordance with the terms of the Plan, subject to the terms of this Appendix. In the event of any contradiction between any term of this Appendix and any term of the Plan, the provisions of this Appendix shall override with respect to the Israeli Employees, in respect of whom this Appendix shall constitute an integral part of the Plan and references to the Plan in respect of the Israeli Employees shall be interpreted accordingly.

1. **Special Conditions**
   1. The Company shall apply to the Income Tax Commissioner to approve the Trustee and the Plan under the 102 Provisions. Subject to the approval of this Plan by the Israeli Income Tax Commissioner, the Special Conditions shall apply to the plan and to this Appendix.
   2. The Administrator shall exercise its discretion under the Plan in accordance with the terms of this Appendix.
2. **Eligibility**

Options shall not be granted to any Israeli Employee who is, or on giving effect to such grant, will become, the holder of a controlling interest (‘baal shlita’) in the Company, as defined in section 32(9) of the Ordinance.

1. **Trust**
   1. The Options and the Shares shall be issued directly in the name of the Trustee and shall be held in escrow by the Trustee for the Israeli Employees’ benefit, for no less then the Tax Lockup Period, all according to the terms of this Appendix.
   2. In the event that bonus shares shall be issued on account of the Shares, such bonus shares shall be issued by the Company to the Trustee. The 102 Provisions shall apply to such bonus shares for all purposes.
   3. The Trustee shall be entitled to set additional exercise procedures to those described in the Plan, as the Trustee shall see fit, provided that the Trustee has given the Company prior written notice of any such procedures.

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1. **Taxes**
   1. The Israeli Employees shall be taxed in respect of the Options in accordance with the provisions of the Ordinance, including the 102 Provisions. The Israeli Employee will not be entitled to the exemption from tax contained in sections 95 or 97(a) of the Ordinance.
   2. Without derogating from section 9(g) of the Plan, any tax imposed in respect of the Options and/or the Shares and/or the sale and/or the transfer of the Options and/or the Shares shall be borne solely by the Israeli Employee, and in the event of the death of the Israeli Employee, by the Israeli Employee’s heirs or successors. The Employer, shall not bear the aforementioned taxes, directly or indirectly, nor shall the Employer be required to gross such tax up in the Israeli Employee’s salaries or remuneration. The imposed tax shall be paid by the Israeli Employee or deducted, on the date such tax is payable, from the sale consideration paid to the Trustee by the Israeli Employee, as applicable.
   3. At the end of the Tax Lockup Period, the Israeli Employee (or the Israeli Employee’s heirs or successors) shall be entitled at any time to instruct the Trustee to transfer the Options or the Shares to which such Israeli Employee is entitled to the Israeli Employee or its nominees, or, if appropriate, to sell the Shares and pay the consideration received to the Israeli Employee.

Subject to the 102 Provisions, the Trustee shall not transfer the Options and/or the Shares to the Israeli Employee’s name, and shall not transfer the consideration received from the sale of the Shares to the Israeli Employee, unless one of the following conditions shall be fulfilled:

* + 1. The Israeli Employee has provided the Trustee with certification from the assessing officer that the tax has been paid; or
    2. The Israeli Employee has paid the Trustee an amount equal to 30% of the ‘consideration’, as defined in section 102 of the Ordinance (the “Taxable Consideration”) for such sale, and the Trustee has reviewed the manner of calculating the payable amount and is fully satisfied that the calculation was performed lawfully; or
    3. The Trustee has deducted an amount equal to 30% of the Taxable Consideration from the consideration received from the sale of the Shares.
  1. The effects of any future amendment to the tax arrangements which apply to the issuance of securities to the Israeli Employees, shall apply to the Israeli Employees in accordance with such provisions of law, and the Israeli Employees shall bear the full cost thereof, unless the modified arrangement expressly provides otherwise.

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* 1. Each Israeli Employee shall indemnify the Employer and/or the Trustee, immediately upon receipt of notice from the Employer and/or the Trustee, for any amount (including interest and/or fines of any type and/or linkage differentials in respect of tax and/or withheld tax) payable by such Israeli Employee under law (including under the 102 Provisions), and which has been paid by the Employer or the Trustee or which the Employer or the Trustee are required to pay by the tax authorities.
  2. Should the Israeli Amendment of Tax Law Bill 2000 (or any other substantially similar draft legislation) (the “**New Law**”) enter into effect, the Board shall be entitled, at its absolute discretion, to order the Trustee to make an application to the Israeli Tax Commission in order to request that the provisions set out in the New Law, which replace the 102 Provisions, shall apply to the Israeli Employees, regarding either existing or future allotments, as shall be determined in the New Law.

1. **Miscellaneous**
   1. The Israeli Employees shall sign any document required by the Trustee or the Income Tax Commission to give effect to the provisions of this Appendix.
   2. Without derogating section 19 of the Plan, it is hereby acknowledged that the Options and/or the Exercise Shares are extraordinary, one-off benefits granted to the Offerees, and are not and shall not be deemed a salary component for any purpose whatsoever, including in connection with calculating severance compensation under the Severance Pay Law, 5723-1963 and the regulations promulgated thereunder.
   3. The grant of Options to each Israeli Employee shall be made in consideration of a waiver on the part of such Israeli Employee of a portion of the Israeli Employee’s salary in the amount of NIS 1.
   4. In the event of a change in control of the Company is proposed during the Tax Lock Up Period, the consummation which will cause the breach of the terms of the 102 Provisions, the Company will use its best efforts to apply to the Israeli Tax Authorities to obtain a pre-ruling to regulate the tax treatment applicable to the Options in the context of the proposed transaction.
   5. Except as expressly provided in this Appendix, the provisions of this Appendix do not supercede any provisions of the Plan, and the provisions of the Plan shall govern all Options granted to Israeli Employees.

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**Exhibit 31.1**

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

I, Dr. Sehat Sutardja, Ph.D., certify that:

1. I have reviewed this quarterly report on Form 10-Q of Marvell Technology Group Ltd.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this quarterly report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
   1. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
   2. Evaluated the effectiveness of the registrant’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
   3. Disclosed in this report any change in the registrant’s internal control over financial reporting that occurred during the registrant’s most recent fiscal quarter (the registrant’s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant’s internal control over financial reporting; and
5. The registrant’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant’s auditors and the audit committee of registrant’s board of directors (or persons performing the equivalent function):
   1. All significant deficiencies and material weaknesses in the design or operation of internal controls over financial reporting which are reasonably likely to adversely affect the registrant’s ability to record, process, summarize and report financial information; and
   2. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant’s internal control over financial reporting.

Date: September 15, 2003 By: /s/ SEHAT SUTARDJA



Dr. Sehat Sutardja, Ph.D.

Co-Chairman of the Board,

President and Chief Executive Officer

**Exhibit 31.2**

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

I, George A. Hervey, certify that:

1. I have reviewed this report on Form 10-Q of Marvell Technology Group Ltd.;
2. Based on my knowledge, this quarterly report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this quarterly report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant’s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the registrant and have:
   1. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
   2. Evaluated the effectiveness of the registrant’s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
   3. Disclosed in this report any change in the registrant’s internal control over financial reporting that occurred during the registrant’s most recent fiscal quarter (the registrant’s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant’s internal control over financial reporting; and
5. The registrant’s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant’s auditors and the audit committee of registrant’s board of directors (or persons performing the equivalent function):
   1. All significant deficiencies and material weaknesses in the design or operation of internal controls over financial reporting which are reasonably likely to adversely affect the registrant’s ability to record, process, summarize and report financial information; and
   2. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant’s internal control over financial reporting.

Date: September 15, 2003 By: /s/ GEORGE A. HERVEY



George A. Hervey

Vice President and Chief Financial Officer

**Exhibit 32.1**

**CERTIFICATION PURSUANT TO**

**18 U.S.C. SECTION 1350,**

**AS ADOPTED PURSUANT TO**

**SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

With reference to the Quarterly Report of Marvell Technology Group Ltd. (the “Company”) on Form 10-Q for the quarter ended July 31, 2003 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Dr. Sehat Sutardja, Ph.D., Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

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

/s/ SEHAT SUTARDJA



Dr. Sehat Sutardja, Ph.D.

Co-Chairman of the Board,

President and Chief Executive Officer

September 15, 2003

**Exhibit 32.2**

**CERTIFICATION PURSUANT TO**

**18 U.S.C. SECTION 1350,**

**AS ADOPTED PURSUANT TO**

**SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

With reference to the Quarterly Report of Marvell Technology Group Ltd. (the “Company”) on Form 10-Q for the quarter ended July 31, 2003 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, George Hervey, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C.

* 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:
  1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
  2. The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

/s/ GEORGE A. HERVEY



George A. Hervey

Vice President and Chief Financial Officer

September 15, 2003