
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549
Form 10-Q

- (Mark one)
- QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**
For the quarterly period ended September 25, 2021
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: 000-50307

FormFactor, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

13-3711155
(I.R.S. Employer
Identification No.)

7005 Southfront Road, Livermore, California 94551
(Address of principal executive offices, including zip code)

(925) 290-4000
(Registrant's telephone number, including area code)

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

| <u>Title of each class</u> | <u>Trading Symbol(s)</u> | <u>Name of each exchange on which registered</u> |
|--|--------------------------|--|
| Common stock, \$0.001 par value | FORM | Nasdaq Global Market |

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of the Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer", "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the

| | | | |
|-------------------------|-------------------------------------|---------------------------|--------------------------|
| Large Accelerated Filer | <input checked="" type="checkbox"/> | Accelerated Filer | <input type="checkbox"/> |
| Non-accelerated Filer | <input type="checkbox"/> | Smaller Reporting Company | <input type="checkbox"/> |
| Emerging Growth Company | <input type="checkbox"/> | | |

Exchange Act. (Check one):

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

As of October 28, 2021, 78,207,417 shares of the registrant's common stock, par value \$0.001 per share, were outstanding.

FORMFACTOR, INC.
FORM 10-Q FOR THE QUARTERLY PERIOD ENDED SEPTEMBER 25, 2021
INDEX

| | | |
|------------------------|--|------------------|
| <u>Part I.</u> | <u>Financial Information</u> | |
| <u>Item 1.</u> | <u>Financial Statements (Unaudited):</u> | |
| | <u>Condensed Consolidated Balance Sheets as of September 25, 2021 and December 26, 2020</u> | <u>3</u> |
| | <u>Condensed Consolidated Statements of Income for the three and nine months ended September 25, 2021 and September 26, 2020</u> | <u>4</u> |
| | <u>Condensed Consolidated Statements of Comprehensive Income for the three and nine months ended September 25, 2021 and September 26, 2020</u> | <u>5</u> |
| | <u>Condensed Consolidated Statement of Stockholders' Equity for the three and nine months ended September 25, 2021 and September 26, 2020</u> | <u>6</u> |
| | <u>Condensed Consolidated Statements of Cash Flows for the nine months ended September 25, 2021 and September 26, 2020</u> | <u>8</u> |
| | <u>Notes to Condensed Consolidated Financial Statements</u> | <u>10</u> |
| <u>Item 2.</u> | <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u> | <u>24</u> |
| <u>Item 3.</u> | <u>Quantitative and Qualitative Disclosures About Market Risk</u> | <u>35</u> |
| <u>Item 4.</u> | <u>Controls and Procedures</u> | <u>35</u> |
| <u>Part II.</u> | <u>Other Information</u> | <u>35</u> |
| <u>Item 1A.</u> | <u>Risk Factors</u> | <u>35</u> |
| <u>Item 6.</u> | <u>Exhibits</u> | <u>36</u> |
| <u>Signatures</u> | | <u>37</u> |

PART I - FINANCIAL INFORMATION

Item 1. Financial Statements

FORMFACTOR, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS
(In thousands, except share and per share amounts)
(Unaudited)

| | September 25, 2021 | December 26, 2020 |
|--|-----------------------|----------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 153,781 | \$ 187,225 |
| Marketable securities | 110,898 | 67,810 |
| Accounts receivable, net of allowance for doubtful accounts of \$214 and \$248 | 105,807 | 107,603 |
| Inventories, net | 115,104 | 99,229 |
| Restricted cash | 2,019 | 1,904 |
| Prepaid expenses and other current assets | 18,892 | 23,303 |
| Total current assets | 506,501 | 487,074 |
| Restricted cash | 1,674 | 1,969 |
| Operating lease, right-of-use-assets | 36,669 | 30,756 |
| Property, plant and equipment, net of accumulated depreciation | 140,098 | 104,103 |
| Goodwill | 213,293 | 212,761 |
| Intangibles, net | 39,195 | 59,147 |
| Deferred tax assets | 67,231 | 66,242 |
| Other assets | 1,930 | 1,165 |
| Total assets | <u>\$ 1,006,591</u> | <u>\$ 963,217</u> |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 64,925 | \$ 62,045 |
| Accrued liabilities | 54,625 | 55,342 |
| Current portion of term loans, net of unamortized issuance costs | 9,213 | 9,516 |
| Deferred revenue | 23,275 | 20,964 |
| Operating lease liabilities | 7,962 | 6,704 |
| Total current liabilities | 160,000 | 154,571 |
| Term loans, less current portion, net of unamortized issuance costs | 17,742 | 24,978 |
| Deferred tax liabilities | 4,264 | 5,346 |
| Long-term operating lease liabilities | 32,401 | 27,996 |
| Other liabilities | 5,794 | 6,242 |
| Total liabilities | 220,201 | 219,133 |
| Stockholders' equity: | | |
| Common stock, \$0.001 par value: | | |
| 250,000,000 shares authorized; 78,207,219 and 77,437,997 shares issued and outstanding | 78 | 78 |
| Additional paid-in capital | 892,303 | 903,838 |
| Accumulated other comprehensive income | 1,700 | 5,886 |
| Accumulated deficit | (107,691) | (165,718) |
| Total stockholders' equity | 786,390 | 744,084 |
| Total liabilities and stockholders' equity | <u>\$ 1,006,591</u> | <u>\$ 963,217</u> |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF INCOME
(In thousands, except per share amounts)
(Unaudited)

| | Three Months Ended | | Nine Months Ended | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Revenues | \$ 189,964 | \$ 177,996 | \$ 564,676 | \$ 496,573 |
| Cost of revenues | 109,745 | 101,247 | 331,468 | 286,267 |
| Gross profit | 80,219 | 76,749 | 233,208 | 210,306 |
| Operating expenses: | | | | |
| Research and development | 26,026 | 22,878 | 75,526 | 65,064 |
| Selling, general and administrative | 30,940 | 31,834 | 91,434 | 82,282 |
| Total operating expenses | 56,966 | 54,712 | 166,960 | 147,346 |
| Operating income | 23,253 | 22,037 | 66,248 | 62,960 |
| Interest income | 121 | 249 | 463 | 1,310 |
| Interest expense | (151) | (193) | (447) | (682) |
| Other expense, net | 58 | 299 | 36 | 141 |
| Income before income taxes | 23,281 | 22,392 | 66,300 | 63,729 |
| Provision (benefit) for income taxes | 2,784 | (499) | 8,273 | 4,479 |
| Net income | \$ 20,497 | \$ 22,891 | \$ 58,027 | \$ 59,250 |
| Net income per share: | | | | |
| Basic | \$ 0.26 | \$ 0.30 | \$ 0.75 | \$ 0.78 |
| Diluted | \$ 0.26 | \$ 0.29 | \$ 0.73 | \$ 0.75 |
| Weighted-average number of shares used in per share calculations: | | | | |
| Basic | 77,869 | 77,029 | 77,643 | 76,436 |
| Diluted | 79,029 | 78,809 | 79,190 | 78,534 |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(In thousands)
(Unaudited)

| | Three Months Ended | | Nine Months Ended | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Net income | \$ 20,497 | \$ 22,891 | \$ 58,027 | \$ 59,250 |
| Other comprehensive income (loss), net of tax: | | | | |
| Translation adjustments and other | (1,511) | 1,867 | (3,258) | 2,231 |
| Unrealized gains (losses) on available-for-sale marketable securities | (62) | (148) | (290) | 349 |
| Unrealized gains (losses) on derivative instruments | (323) | 302 | (638) | 558 |
| Other comprehensive income (loss), net of tax | (1,896) | 2,021 | (4,186) | 3,138 |
| Comprehensive income | <u>\$ 18,601</u> | <u>\$ 24,912</u> | <u>\$ 53,841</u> | <u>\$ 62,388</u> |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(In thousands, except shares)
(Unaudited)

| | Shares of Common Stock | Common Stock | Additional Paid-in Capital | Accumulated Other Comprehensive Income (Loss) | Accumulated Deficit | Total |
|---|------------------------------|-----------------|----------------------------------|--|------------------------|-------------------|
| Nine Months Ended September 25, 2021 | | | | | | |
| Balances, December 26, 2020 | 77,437,997 | \$ 78 | \$ 903,838 | \$ 5,886 | \$ (165,718) | \$ 744,084 |
| Issuance of common stock under the Employee Stock Purchase Plan | 378,584 | — | 9,809 | — | — | 9,809 |
| Issuance of common stock pursuant to exercise of options | 100,000 | — | 844 | — | — | 844 |
| Issuance of common stock pursuant to vesting of restricted stock units, net of stock withheld for tax | 910,838 | 1 | (19,602) | — | — | (19,601) |
| Purchase and retirement of common stock through repurchase program | (620,200) | (1) | (23,950) | — | — | (23,951) |
| Stock-based compensation | — | — | 21,364 | — | — | 21,364 |
| Other comprehensive loss | — | — | — | (4,186) | — | (4,186) |
| Net income | — | — | — | — | 58,027 | 58,027 |
| Balances, September 25, 2021 | <u>78,207,219</u> | <u>\$ 78</u> | <u>\$ 892,303</u> | <u>\$ 1,700</u> | <u>\$ (107,691)</u> | <u>\$ 786,390</u> |
| Three Months Ended September 25, 2021 | | | | | | |
| Balances, June 26, 2021 | 77,454,800 | \$ 77 | \$ 894,062 | \$ 3,596 | \$ (128,188) | \$ 769,547 |
| Issuance of common stock under the Employee Stock Purchase Plan | 149,800 | — | 4,744 | — | — | 4,744 |
| Issuance of common stock pursuant to vesting of restricted stock units, net of stock withheld for tax | 602,619 | 1 | (14,341) | — | — | (14,340) |
| Stock-based compensation | — | — | 7,838 | — | — | 7,838 |
| Other comprehensive loss | — | — | — | (1,896) | — | (1,896) |
| Net income | — | — | — | — | 20,497 | 20,497 |
| Balances, September 25, 2021 | <u>78,207,219</u> | <u>\$ 78</u> | <u>\$ 892,303</u> | <u>\$ 1,700</u> | <u>\$ (107,691)</u> | <u>\$ 786,390</u> |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(In thousands, except shares)
(Unaudited)

| | Shares of Common Stock | Common Stock | Additional Paid-in Capital | Accumulated Other Comprehensive Income (Loss) | Accumulated Deficit | Total |
|---|------------------------------|-----------------|----------------------------------|--|------------------------|-------------------|
| Nine Months Ended September 26, 2020 | | | | | | |
| Balances, December 28, 2019 | 75,764,990 | \$ 76 | \$ 885,821 | \$ (659) | \$ (244,241) | \$ 640,997 |
| Issuance of common stock under the Employee Stock Purchase Plan | 485,566 | — | 7,875 | — | — | 7,875 |
| Issuance of common stock pursuant to exercise of options | 205,769 | 1 | 1,712 | — | — | 1,713 |
| Issuance of common stock pursuant to vesting of restricted stock units, net of stock withheld for tax | 927,169 | 1 | (15,383) | — | — | (15,382) |
| Stock-based compensation | — | — | 16,551 | — | — | 16,551 |
| Other comprehensive income | — | — | — | 3,138 | — | 3,138 |
| Net income | — | — | — | — | 59,250 | 59,250 |
| Balances, September 26, 2020 | <u>77,383,494</u> | <u>\$ 78</u> | <u>\$ 896,576</u> | <u>\$ 2,479</u> | <u>\$ (184,991)</u> | <u>\$ 714,142</u> |
| Three Months Ended September 26, 2020 | | | | | | |
| Balances, June 27, 2020 | 76,501,459 | \$ 77 | \$ 898,069 | \$ 458 | \$ (207,882) | \$ 690,722 |
| Issuance of common stock under the Employee Stock Purchase Plan | 173,975 | — | 3,809 | — | — | 3,809 |
| Issuance of common stock pursuant to exercise of options | 100,000 | — | 844 | — | — | 844 |
| Issuance of common stock pursuant to vesting of restricted stock units, net of stock withheld for tax | 608,060 | 1 | (11,583) | — | — | (11,582) |
| Stock-based compensation | — | — | 5,437 | — | — | 5,437 |
| Other comprehensive income | — | — | — | 2,021 | — | 2,021 |
| Net income | — | — | — | — | 22,891 | 22,891 |
| Balances, September 26, 2020 | <u>77,383,494</u> | <u>\$ 78</u> | <u>\$ 896,576</u> | <u>\$ 2,479</u> | <u>\$ (184,991)</u> | <u>\$ 714,142</u> |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(In thousands)
(Unaudited)

| | Nine Months Ended | |
|--|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 |
| Cash flows from operating activities: | | |
| Net income | \$ 58,027 | \$ 59,250 |
| Adjustments to reconcile net income to net cash provided by operating activities: | | |
| Depreciation | 19,256 | 14,491 |
| Amortization | 16,362 | 20,249 |
| Reduction in the carrying amount of right-of-use assets | 5,412 | 4,294 |
| Stock-based compensation expense | 21,585 | 16,774 |
| Provision for excess and obsolete inventories | 11,621 | 9,763 |
| Non-cash restructuring charges | 1,592 | — |
| Gain on contingent consideration | (95) | (3,771) |
| Other adjustments to reconcile net income to net cash provided by operating activities | 1,627 | (977) |
| Changes in assets and liabilities: | | |
| Accounts receivable | 1,157 | 5,712 |
| Inventories | (30,335) | (18,566) |
| Prepaid expenses and other current assets | 3,631 | (5,619) |
| Other assets | (333) | 219 |
| Accounts payable | 1,488 | 18,054 |
| Accrued liabilities | (6,951) | 4,754 |
| Other liabilities | 47 | 272 |
| Deferred revenues | 2,000 | 3,806 |
| Operating lease liabilities | (5,654) | (4,496) |
| Net cash provided by operating activities | 100,437 | 124,209 |
| Cash flows from investing activities: | | |
| Acquisition of property, plant and equipment | (51,353) | (41,887) |
| Acquisition of business, net of cash acquired | — | (34,999) |
| Proceeds from sale of a subsidiary | — | 82 |
| Purchases of marketable securities | (114,898) | (29,721) |
| Proceeds from maturities and sales of marketable securities | 71,275 | 50,330 |
| Net cash used in investing activities | (94,976) | (56,195) |
| Cash flows from financing activities: | | |
| Proceeds from issuances of common stock | 10,647 | 9,588 |
| Purchase of common stock through stock repurchase program | (23,951) | — |
| Tax withholdings related to net share settlements of equity awards | (12,643) | (15,382) |
| Payment of contingent consideration | (3,873) | — |
| Proceeds from term loan | — | 18,000 |
| Principal repayments on term loans | (7,049) | (41,098) |
| Payment of term loan debt issuance costs | — | (78) |
| Net cash used in financing activities | (36,869) | (28,970) |
| Effect of exchange rate changes on cash, cash equivalents and restricted cash | (2,216) | 1,262 |
| Net increase (decrease) in cash, cash equivalents and restricted cash | (33,624) | 40,306 |
| Cash, cash equivalents and restricted cash, beginning of period | 191,098 | 147,937 |
| Cash, cash equivalents and restricted cash, end of period | \$ 157,474 | \$ 188,243 |

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

FORMFACTOR, INC.
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(In thousands)
(Unaudited)

| | Nine Months Ended | |
|---|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 |
| Non-cash investing and financing activities: | | |
| Increase in accounts payable and accrued liabilities related to property, plant and equipment purchases | \$ 4,684 | \$ 3,041 |
| Increase in accrued liabilities related to tax withholdings related to net share settlements of equity awards | 6,952 | — |
| Operating lease, right-of-use assets obtained in exchange for lease obligations | 11,699 | 1,549 |
| Supplemental disclosure of cash flow information: | | |
| Cash paid for income taxes, net | \$ 6,795 | \$ 7,475 |
| Cash paid for interest | 496 | 683 |
| Operating cash outflows from operating leases | 6,420 | 5,566 |
| Reconciliation of cash, cash equivalents and restricted cash: | | |
| Cash and cash equivalents | \$ 153,781 | \$ 185,368 |
| Restricted cash, current | 2,019 | 1,477 |
| Restricted cash, non-current | 1,674 | 1,398 |
| Total cash, cash equivalents and restricted cash | \$ 157,474 | \$ 188,243 |

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

FORMFACTOR, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

Note 1 — Basis of Presentation and New Accounting Pronouncements

Basis of Presentation

The accompanying condensed consolidated financial information of FormFactor, Inc. is unaudited and has been prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”) and pursuant to the rules and regulations of the Securities and Exchange Commission (“SEC”). However, such information reflects all adjustments, consisting only of normal recurring adjustments, which are, in the opinion of management, necessary for a fair presentation of the financial position, results of operations and cash flows for the interim periods. The condensed consolidated financial statements included herein should be read in conjunction with the consolidated financial statements and the notes thereto included in our 2020 Annual Report on Form 10-K filed with the SEC on February 22, 2021. The results of operations for the interim periods presented are not necessarily indicative of the results to be expected for the full year.

Fiscal Year

We operate on a 52/53 week fiscal year, whereby the fiscal year ends on the last Saturday of December. Fiscal 2021 and 2020 each contain 52 weeks and the nine months ended September 25, 2021 and September 26, 2020 each contained 39 weeks. Fiscal 2021 will end on December 25, 2021.

Significant Accounting Policies

Our significant accounting policies have not changed during the nine months ended September 25, 2021 from those disclosed in our Annual Report on Form 10-K for the year ended December 26, 2020.

New Accounting Pronouncements

ASU 2019-12

In December 2019, the Financial Accounting Standard Board (“FASB”) issued Accounting Standards Update (“ASU”) 2019-12, “Income Taxes (Topic 740),” which simplifies the accounting for income taxes by removing certain exceptions to the general principles in Topic 740. The amendments also improve consistent application of and simplify GAAP for other areas of Topic 740 by clarifying and amending existing guidance. This guidance is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2020. We adopted ASU 2019-12 on a prospective basis on December 27, 2020, the first day of fiscal 2021. The adoption did not have a material effect on our consolidated financial position, results of operations or cash flows.

ASU 2020-04

In March 2020, the FASB issued ASU 2020-04, “Referenced Rate Reform (Topic 848) - Facilitation of the Effects of Reference Rate Reform on Financial Reporting.” The ASU provides temporary optional expedients and exceptions for applying generally accepted accounting principles to contract modifications and hedging relationships, subject to meeting certain criteria, that reference the London Interbank Offered Rate (“LIBOR”) or another reference rate expected to be discontinued. In January 2021, the FASB issued ASU 2021-01, “Reference Rate Reform (Topic 848),” which permits entities to apply optional expedients in Topic 848 to derivative instruments modified because of discounting transition resulting from reference rate reform. ASU 2020-04 became effective upon issuance and may be applied prospectively to contract modifications made on or before December 31, 2022. ASU 2021-01 became effective upon issuance and may be applied on a full retrospective basis as of any date from the beginning of an interim period that includes or is subsequent to March 12, 2020 or prospectively for contract modifications made on or before December 31, 2022. The Company has not yet applied the relief afforded by these standard amendments and is currently assessing contracts that will require modification due to reference rate reform to which these standard amendments may be applied.

Note 2 — Concentration of Credit and Other Risks

Each of the following customers accounted for 10% or more of our revenues for the periods indicated:

| | Three Months Ended | | Nine Months Ended | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Intel Corporation | 20.8 % | 25.6 % | 21.7 % | 32.4 % |
| Samsung Electronics., LTD. | 12.9 % | 10.6 % | 10.5 % | * |
| Taiwan Semiconductor Manufacturing Co., LTD. | * | 10.6 % | * | * |
| Micron Technology, Inc. | * | 10.1 % | * | * |
| | 33.7 % | 56.9 % | 32.2 % | 32.4 % |

*Represents less than 10% of total revenues.

At September 25, 2021, one customer accounted for 19.3% of gross accounts receivable. At December 26, 2020, two customers accounted for 15.3% and 13.7% of gross accounts receivable, respectively.

Note 3 — Inventories, net

Inventories are stated at the lower of cost (principally standard cost, which approximates actual cost on a first in, first out basis) or net realizable value.

Inventories, net, consisted of the following (in thousands):

| | September 25, 2021 | December 26, 2020 |
|------------------|-----------------------|----------------------|
| Raw materials | \$ 55,352 | \$ 48,122 |
| Work-in-progress | 41,638 | 30,806 |
| Finished goods | 18,114 | 20,301 |
| | <u>\$ 115,104</u> | <u>\$ 99,229</u> |

Note 4 — Acquisitions

High Precision Devices, Inc. Acquisition

On October 19, 2020, we acquired HPD for total consideration of \$16.9 million, net of cash acquired of \$1.7 million, which included an adjustment for changes in working capital. The acquisition was accounted for using the acquisition method of accounting. The acquisition price was allocated to the tangible and identified intangible assets acquired and liabilities assumed as of the closing date of the acquisition based upon their respective fair values, including an amount for goodwill representing the difference between the acquisition consideration and the fair value of the identifiable net assets. The fair values assigned to the assets acquired and liabilities assumed were based on management's assumptions as of the acquisition date. We subsequently made certain immaterial adjustments within the measurement period to the acquisition price allocation as a result of finalization of our valuation of identifiable assets and liabilities. See Note 5, *Goodwill and Intangible Assets*, for the changes

in identified intangible values and goodwill. The final allocation of the assets acquired, including goodwill and intangibles, and liabilities assumed for the purchase is as follows (in thousands):

| | Amount |
|--|---------------|
| Cash and cash equivalents | \$ 1,680 |
| Accounts receivable | 1,017 |
| Inventories | 3,047 |
| Property, plant and equipment | 669 |
| Operating lease, right of use assets | 2,554 |
| Prepaid expenses and other current assets | 916 |
| Tangible assets acquired | 9,883 |
| Deferred revenue | (2,529) |
| Accounts payable and accrued liabilities | (1,268) |
| Operating lease liabilities | (2,554) |
| Deferred tax liabilities | (2,400) |
| Total tangible assets acquired and liabilities assumed | 1,132 |
| Intangible assets | 11,520 |
| Goodwill | 5,908 |
| Net Assets Acquired | \$ 18,560 |

The intangible assets as of the acquisition included (in thousands):

| | Amount | Weighted Average Useful Life (in years) |
|-------------------------|---------------|--|
| Developed technologies | \$ 7,500 | 10.0 |
| Customer relationships | 3,600 | 5.0 |
| Order backlog | 200 | 0.5 |
| Trade names | 220 | 5.0 |
| Total intangible assets | \$ 11,520 | 8.2 |

Baldwin Park Acquisition

On July 30, 2020, we acquired the probe card assets of Advantest Corporation for total consideration of \$35.0 million. The acquisition was accounted for using the acquisition method of accounting. The acquisition price was allocated to the tangible and identified intangible assets acquired and liabilities assumed as of the closing date of the acquisition based upon their respective fair values including an amount for goodwill representing the difference between the acquisition consideration and the fair value of the identifiable net assets. The fair values assigned to assets acquired and liabilities assumed were based on management's assumptions as of the acquisition date. We subsequently made certain immaterial adjustments within the measurement period to the acquisition price allocation as a result of finalization of our valuation of identifiable assets and liabilities. See Note 5, *Goodwill and Intangible Assets*, for the changes in identified intangible values and goodwill. The final

allocation of the assets acquired, including goodwill and intangibles, and liabilities assumed for the purchase as follows (in thousands):

| | Amount |
|--|------------------|
| Accounts receivable | \$ 4,365 |
| Inventories | 2,727 |
| Property, plant and equipment | 9,053 |
| Operating lease, right of use assets | 519 |
| Prepaid expenses and other current assets | 56 |
| Tangible assets acquired | 16,720 |
| Accounts payable and accrued liabilities | (743) |
| Operating lease liabilities | (519) |
| Total tangible assets acquired and liabilities assumed | 15,458 |
| Intangible assets | 13,600 |
| Goodwill | 5,942 |
| Net assets acquired | <u>\$ 35,000</u> |

The intangible assets as of the acquisition date included (in thousands):

| | Amount | Weighted Average Useful Life (in years) |
|-------------------------------------|------------------|--|
| Developed technologies | \$ 8,800 | 10.0 |
| Customer relationships | 4,400 | 3.0 |
| In-process research and development | 400 | N/A |
| Total intangible assets | <u>\$ 13,600</u> | 7.7 |

Note 5 — Goodwill and Intangible Assets

Goodwill by reportable segment was as follows (in thousands):

| | Probe Cards | Systems | Total |
|--|--------------------|------------------|-------------------|
| Goodwill, gross, as of December 28, 2019 | \$ 172,482 | \$ 26,714 | \$ 199,196 |
| Addition - FRT GmbH Acquisition | — | 975 | 975 |
| Addition - Baldwin Park Acquisition | 5,590 | — | 5,590 |
| Addition - HPD Acquisition | — | 4,654 | 4,654 |
| Foreign currency translation | — | 2,346 | 2,346 |
| Goodwill, gross, as of December 26, 2020 | 178,072 | 34,689 | 212,761 |
| Addition - Baldwin Park Acquisition | 352 | — | 352 |
| Addition - HPD Acquisition | — | 1,254 | 1,254 |
| Foreign currency translation | — | (1,074) | (1,074) |
| Goodwill, gross, as of September 25, 2021 | <u>\$ 178,424</u> | <u>\$ 34,869</u> | <u>\$ 213,293</u> |

We have not recorded goodwill impairments for the nine months ended September 25, 2021.

Intangible assets were as follows (in thousands):

| Intangible Assets | September 25, 2021 | | | December 26, 2020 | | |
|-------------------------------------|--------------------|--------------------------|------------------|-------------------|--------------------------|------------------|
| | Gross | Accumulated Amortization | Net | Gross | Accumulated Amortization | Net |
| Developed technologies | \$ 173,160 | \$ 148,518 | \$ 24,642 | \$ 176,265 | \$ 137,754 | \$ 38,511 |
| Customer relationships | 51,514 | 37,885 | 13,629 | 52,488 | 33,378 | 19,110 |
| Trade names | 8,110 | 7,586 | 524 | 8,162 | 7,363 | 799 |
| Order backlog | 1,958 | 1,958 | — | 2,227 | 1,900 | 327 |
| In-process research and development | 400 | — | 400 | 400 | — | 400 |
| | <u>\$ 235,142</u> | <u>\$ 195,947</u> | <u>\$ 39,195</u> | <u>\$ 239,542</u> | <u>\$ 180,395</u> | <u>\$ 59,147</u> |

Amortization expense was included in our Condensed Consolidated Statements of Income as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Cost of revenues | \$ 858 | \$ 4,985 | \$ 11,453 | \$ 15,661 |
| Selling, general and administrative | 1,604 | 1,547 | 4,909 | 4,588 |
| | <u>\$ 2,462</u> | <u>\$ 6,532</u> | <u>\$ 16,362</u> | <u>\$ 20,249</u> |

The estimated future amortization of definite-lived intangible assets, excluding in-process research and development, is as follows (in thousands):

| Fiscal Year | Amount |
|-------------------|------------------|
| Remainder of 2021 | \$ 2,401 |
| 2022 | 9,592 |
| 2023 | 7,224 |
| 2024 | 4,611 |
| 2025 | 4,351 |
| Thereafter | 10,616 |
| | <u>\$ 38,795</u> |

Note 6 — Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

| | September 25, 2021 | December 26, 2020 |
|---|--------------------|-------------------|
| Accrued compensation and benefits | \$ 37,913 | \$ 33,110 |
| Accrued income and other taxes | 5,466 | 6,976 |
| Accrued warranty | 2,803 | 3,918 |
| Employee stock purchase plan contributions withheld | 1,924 | 4,240 |
| Accrued contingent consideration | — | 4,012 |
| Accrued restructuring charges | 3,675 | — |
| Other accrued expenses | 2,844 | 3,086 |
| | <u>\$ 54,625</u> | <u>\$ 55,342</u> |

Note 7 — Restructuring Charges

On September 25, 2021, we adopted restructuring plans to improve our business effectiveness and streamline our operations by consolidating certain manufacturing facilities for both the Probe Cards segment and the Systems segment. This includes plans to consolidate or relocate certain leased locations in the United States to other locations in the United States, Germany and Asia. As a result of these changes to certain work locations, we have incurred, and expect to incur, personnel related costs to sever, relocate, or retain select employees. Additionally, we are undertaking actions to adjust capacity for certain product offerings. As a result of these adjustments, contract termination costs include charges to satisfy contract obligations. The liability was recognized using our best estimate and it is reasonably possible that the final amount will differ from the amount estimated in the near term. We expect the actions defined under these plans will be largely completed by the end of December 2022, except facilities charges which may extend beyond that time.

This plan is expected to result in FormFactor recording restructuring and other charges in the aggregate amount of approximately \$8.0 million to \$10.5 million, estimated to be comprised primarily of \$1.0 million to \$2.0 million of severance and employee-related costs, \$3.5 million to 4.5 million in contract and lease termination costs, \$1.0 million to \$1.5 million in inventory impairments, and \$2.0 million to \$2.5 million of cost related to impairment of leasehold improvements, facility exits, and other costs. Approximately \$5.0 million to \$6.0 million and \$3.0 million to \$4.5 million is expected within the Probe Cards segment and Systems segment, respectively.

Restructuring charges by reportable segment included in our Condensed Consolidated Statements of Income were as follows (in thousands):

| | Three Months Ended | | | Nine Months Ended | | |
|-------------------------------------|--------------------|---------------|-----------------|--------------------|-----------------|-----------------|
| | September 25, 2021 | | | September 25, 2021 | | |
| | Probe Cards | Systems | Total | Probe Cards | Systems | Total |
| Cost of revenues | \$ 4,070 | \$ 252 | \$ 4,322 | \$ 4,070 | \$ 420 | \$ 4,490 |
| Research and development | — | 289 | 289 | — | 694 | 694 |
| Selling, general and administrative | — | 22 | 22 | — | 83 | 83 |
| | <u>\$ 4,070</u> | <u>\$ 563</u> | <u>\$ 4,633</u> | <u>\$ 4,070</u> | <u>\$ 1,197</u> | <u>\$ 5,267</u> |

Changes to the restructuring accrual in the nine months ended September 25, 2021 were as follows (in thousands):

| | Employee Severance and Benefits | Inventory Impairments | Property and Equipment Impairments | Contract Termination Costs | Total |
|-----------------------|---------------------------------------|--------------------------|--|-------------------------------|-----------------|
| December 26, 2020 | \$ — | \$ — | \$ — | \$ — | \$ — |
| Restructuring charges | 875 | 1,322 | 270 | 2,800 | 5,267 |
| Non-cash settlement | — | (1,322) | (270) | — | (1,592) |
| September 25, 2021 | <u>\$ 875</u> | <u>\$ —</u> | <u>\$ —</u> | <u>\$ 2,800</u> | <u>\$ 3,675</u> |

Note 8 — Fair Value and Derivative Instruments

Whenever possible, the fair values of our financial assets and liabilities are determined using quoted market prices of identical securities or quoted market prices of similar securities from active markets. The three levels of inputs that may be used to measure fair value are as follows:

- Level 1 valuations are obtained from real-time quotes for transactions in active exchange markets involving identical securities;
- Level 2 valuations utilize significant observable inputs, such as quoted prices for similar assets or liabilities, quoted prices near the reporting date in markets that are less active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; and
- Level 3 valuations utilize unobservable inputs to the valuation methodology and include our own data about assumptions market participants would use in pricing the asset or liability based on the best information available under the circumstances.

We did not have any transfers of assets or liabilities measured at fair value on a recurring basis to or from Level 1, Level 2 or Level 3 during the three and nine months ended September 25, 2021 or the year ended December 26, 2020.

The carrying values of Cash, Accounts receivable, net, Restricted cash, Prepaid expenses and other current assets, Accounts payable, Accrued liabilities, and term loans, net of unamortized issuance costs, approximate fair value due to their short maturities.

No changes were made to our valuation techniques during the first nine months of fiscal 2021.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

Assets and liabilities measured at fair value on a recurring basis were as follows (in thousands):

| September 25, 2021 | Level 1 | Level 2 | Level 3 | Total |
|--|------------------|------------------|-------------------|-------------------|
| Assets: | | | | |
| Cash equivalents: | | | | |
| Money market funds | \$ 12,621 | \$ — | \$ — | \$ 12,621 |
| U.S. treasuries | 5,300 | — | — | 5,300 |
| | <u>17,921</u> | <u>—</u> | <u>—</u> | <u>17,921</u> |
| Marketable securities: | | | | |
| U.S. treasuries | 37,135 | — | — | 37,135 |
| Certificates of deposit | — | 723 | — | 723 |
| U.S. agency securities | — | 575 | — | 575 |
| Corporate bonds | — | 27,336 | — | 27,336 |
| Commercial paper | — | 45,129 | — | 45,129 |
| | <u>37,135</u> | <u>73,763</u> | <u>—</u> | <u>110,898</u> |
| Interest rate swap derivative contracts | — | 548 | — | 548 |
| Total assets | <u>\$ 55,056</u> | <u>\$ 74,311</u> | <u>\$ —</u> | <u>\$ 129,367</u> |
| Liabilities: | | | | |
| Foreign exchange derivative contracts (Designated) | \$ — | \$ (258) | \$ — | \$ (258) |
| Interest rate swap derivative contracts | — | (100) | — | (100) |
| Total liabilities | <u>\$ —</u> | <u>\$ (358)</u> | <u>\$ —</u> | <u>\$ (358)</u> |
| December 26, 2020 | | | | |
| Assets: | | | | |
| Cash equivalents: | | | | |
| Money market funds | \$ 43,019 | \$ — | \$ — | \$ 43,019 |
| Marketable securities: | | | | |
| U.S. treasuries | 40,726 | — | — | 40,726 |
| Certificates of deposit | — | 2,179 | — | 2,179 |
| U.S. agency securities | — | 575 | — | 575 |
| Corporate bonds | — | 24,330 | — | 24,330 |
| | <u>40,726</u> | <u>27,084</u> | <u>—</u> | <u>67,810</u> |
| Foreign exchange derivative contracts | — | 1,057 | — | 1,057 |
| Interest rate swap derivative contracts | — | 57 | — | 57 |
| Total assets | <u>\$ 83,745</u> | <u>\$ 28,198</u> | <u>\$ —</u> | <u>\$ 111,943</u> |
| Liabilities: | | | | |
| Interest rate swap derivative contracts | \$ — | \$ (87) | \$ — | \$ (87) |
| Contingent consideration | — | — | (4,012) | (4,012) |
| Total liabilities | <u>\$ —</u> | <u>\$ (87)</u> | <u>\$ (4,012)</u> | <u>\$ (4,099)</u> |

Cash Equivalents

The fair value of our cash equivalents is determined based on quoted market prices for similar or identical securities.

Marketable Securities

We classify our marketable securities as available-for-sale and value them utilizing a market approach. Our investments are

priced by pricing vendors who provide observable inputs for their pricing without applying significant judgment. Broker pricing is used mainly when a quoted price is not available, the investment is not priced by our pricing vendors or when a broker price is more reflective of fair value. Our broker-priced investments are categorized as Level 2 investments because fair value is based on similar assets without applying significant judgments. In addition, all investments have a sufficient trading volume to demonstrate that the fair value is appropriate.

Unrealized gains and losses were immaterial and were recorded as a component of Accumulated other comprehensive income in our Condensed Consolidated Balance Sheets. We did not have any other-than-temporary unrealized gains or losses at either period end included in these financial statements.

Contingent Consideration

Contingent consideration, arising from the acquisition of FRT GmbH, was a cash amount equal to 1.5x EBIT as defined in the purchase agreement, up to a maximum of €10.3 million, payable subject to the performance of the acquired business in calendar 2020. We estimated the fair value of contingent consideration using a probability weighted approach. Key assumptions in determining the fair value of contingent consideration included estimating EBIT levels that we believed as of the acquisition date were likely to be achieved during the performance period and discounting at an appropriate discount rate. We settled our contingent consideration in the second quarter of fiscal 2021 for \$3.9 million, resulting in a \$0.1 million credit to Selling, general and administrative expense with the remaining change from December 26, 2020 resulting from foreign currency translation.

Interest Rate Swaps

The fair value of our interest rate swap contracts is determined at the end of each reporting period based on valuation models that use interest rate yield curves as inputs. For accounting purposes, our interest rate swap contracts qualify for, and are designated as, cash flow hedges. The cash flows associated with the interest rate swaps are reported in Net cash provided by operating activities in our Condensed Consolidated Statements of Cash Flows and the fair value of the interest rate swap contracts are recorded within Accrued liabilities and Other assets in our Condensed Consolidated Balance Sheets.

Foreign Exchange Derivative Contracts

We operate and sell our products in various global markets. As a result, we are exposed to changes in foreign currency exchange rates. We utilize foreign currency forward contracts to hedge against future movements in foreign exchange rates that affect certain existing foreign currency denominated assets and liabilities and forecasted foreign currency revenue and expense transactions. Under this program, our strategy is to have increases or decreases in our foreign currency exposures mitigated by gains or losses on the foreign currency forward contracts in order to mitigate the risks and volatility associated with foreign currency transaction gains or losses.

We do not use derivative financial instruments for speculative or trading purposes. For accounting purposes, certain of our foreign currency forward contracts are not designated as hedging instruments and, accordingly, we record the fair value of these contracts as of the end of our reporting period in our Condensed Consolidated Balance Sheets with changes in fair value recorded within Other expense, net in our Condensed Consolidated Statement of Income for both realized and unrealized gains and losses. Certain of our foreign currency forward contracts are designated as cash flow hedges, and, accordingly, we record the fair value of these contracts as of the end of our reporting period in our Condensed Consolidated Balance Sheets with changes in fair value recorded as a component of Accumulated other comprehensive income and reclassified into earnings in the same period in which the hedged transaction affects earnings, and in the same line item on the Condensed Consolidated Statements of Income as the impact of the hedge transaction.

The fair value of our foreign exchange derivative contracts was determined based on current foreign currency exchange rates and forward points. All of our foreign exchange derivative contracts outstanding at September 25, 2021 will mature by the third quarter of fiscal 2022.

The following table provides information about our foreign currency forward contracts outstanding as of September 25, 2021 (in thousands):

| Currency | Contract Position | Contract Amount (Local Currency) | Contract Amount (U.S. Dollars) |
|---|-------------------|-------------------------------------|-----------------------------------|
| Euro Dollar | Buy | (11,900) | \$ (14,245) |
| Euro Dollar | Sell | 2,520 | 2,953 |
| Japanese Yen | Sell | 1,992,865 | 17,994 |
| Korean Won | Buy | (2,513,139) | (2,138) |
| Taiwan Dollar | Sell | 7,440 | 269 |
| Total USD notional amount of outstanding foreign exchange contracts | | | \$ 4,833 |

Our foreign currency contracts are classified within Level 2 of the fair value hierarchy as they are valued using pricing models that utilize observable market inputs.

Assets and Liabilities Measured at Fair Value on a Non-Recurring Basis

We measure and report our non-financial assets such as Property, plant and equipment, Goodwill and Intangible assets at fair value on a non-recurring basis if we determine these assets to be impaired or in the period when we make a business acquisition. Other than as discussed in Note 4, *Acquisition*, and Note 7, *Restructuring*, there were no assets or liabilities measured at fair value on a nonrecurring basis during the three and nine months ended September 25, 2021 or September 26, 2020.

Note 9 — Warranty

We offer warranties on certain products and record a liability for the estimated future costs associated with warranty claims at the time revenue is recognized. The warranty liability is based upon historical experience and our estimate of the level of future costs. While we engage in product quality programs and processes, our warranty obligation is affected by product failure rates, material usage and service delivery costs. We continuously monitor product returns for warranty and maintain a reserve for the related expenses based upon our historical experience and any specifically identified failures. As we sell new products to our customers, we must exercise considerable judgment in estimating the expected failure rates. This estimating process is based on historical experience of similar products, as well as various other assumptions that we believe to be reasonable under the circumstances. We provide for the estimated cost of product warranties at the time revenue is recognized as a component of Cost of revenues in our Condensed Consolidated Statement of Income.

Changes in our warranty liability were as follows (in thousands):

| | Nine Months Ended | |
|---------------------------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 |
| Balance at beginning of period | \$ 3,918 | \$ 1,942 |
| Accruals | 4,688 | 2,771 |
| Settlements | (5,803) | (2,838) |
| Balance at end of period | \$ 2,803 | \$ 1,875 |

Note 10 — Property, Plant and Equipment, net

Property, plant and equipment, net consisted of the following (in thousands):

| | September 25, 2021 | December 26, 2020 |
|---|-----------------------|----------------------|
| Land | \$ 4,751 | \$ 4,751 |
| Machinery and equipment | 243,729 | 226,185 |
| Computer equipment and software | 44,241 | 36,361 |
| Furniture and fixtures | 6,930 | 6,894 |
| Leasehold improvements | 82,072 | 79,144 |
| Sub-total | 381,723 | 353,335 |
| Less: Accumulated depreciation and amortization | (309,592) | (294,468) |
| Net, property, plant and equipment | 72,131 | 58,867 |
| Construction-in-process | 67,967 | 45,236 |
| Total | \$ 140,098 | \$ 104,103 |

Note 11 — Stockholders' Equity and Stock-Based Compensation

Common Stock Repurchase Program

On October 26, 2020, our Board of Directors authorized a program to repurchase up to \$50 million of outstanding common stock to offset potential dilution from issuances of common stock under our stock-based compensation plans. The share repurchase program will expire on October 28, 2022. During the nine months ended September 25, 2021, we repurchased and retired 620,200 shares of common stock for \$24.0 million and, as of September 25, 2021, \$26.0 million remained available for future repurchases.

Our policy related to repurchases of our common stock is to charge the excess of cost over par value to additional paid-in capital once the shares are retired. All repurchases were made in compliance with Rule 10b-18 under the Securities Exchange Act of 1934, as amended.

Restricted Stock Units

Restricted stock unit ("RSU") activity under our equity incentive plan was as follows:

| | Units | Weighted Average Grant Date Fair Value |
|-----------------------------------|-------------|--|
| RSUs at December 26, 2020 | 2,840,922 | \$ 19.80 |
| Awards granted | 1,030,085 | 36.09 |
| Awards vested | (1,457,554) | 16.95 |
| Awards forfeited | (38,128) | 23.82 |
| RSUs at September 25, 2021 | 2,375,325 | 28.55 |

Performance Restricted Stock Units

We may grant Performance RSUs ("PRSUs") to certain executives, which vest based upon us achieving certain market performance criteria.

On August 2, 2021, we granted 197,128 PRSUs to certain senior executives for a total grant date fair value of \$8.6 million, which will be recognized ratably over the requisite service period. The performance criteria are based on Total Shareholder Returns ("TSR") for the period of July 1, 2021 - June 30, 2024, relative to the TSR of the companies identified as being part of the S&P semiconductor Select Industry Index (FormFactor peer companies) as of the grant date.

All 318,100 PRSUs granted in fiscal 2018 vested during the nine months ended September 25, 2021. These shares achieved TSR performance that resulted in an additional 124,600 shares issued during the nine months ended September 25, 2021 related to the 2018 PRSU grant.

There were no other PRSUs granted during the nine months ended September 25, 2021. PRSUs are included as part of the RSU activity above.

Stock Options

Stock option activity under our equity incentive plan was as follows:

| | Options Outstanding | Weighted Average Exercise Price | Weighted Average Remaining Contractual Life in Years | Aggregate Intrinsic Value (in thousands) |
|--|---------------------|---------------------------------|--|--|
| Outstanding at December 26, 2020 | 106,000 | \$ 8.35 | | |
| Options exercised | (100,000) | 8.44 | | |
| Outstanding at September 25, 2021 | 6,000 | \$ 6.93 | 0.86 | \$ 201 |
| Vested and expected to vest at September 25, 2021 | 6,000 | \$ 6.93 | 0.86 | \$ 201 |
| Exercisable at September 25, 2021 | 6,000 | \$ 6.93 | 0.86 | \$ 201 |

Employee Stock Purchase Plan

Information related to activity under our Employee Stock Purchase Plan (“ESPP”) was as follows:

| | Nine Months Ended September 25, 2021 |
|---|--------------------------------------|
| Shares issued | 378,584 |
| Weighted average per share purchase price | \$ 25.91 |
| Weighted average per share discount from the fair value of our common stock on the date of issuance | \$ (13.53) |

Stock-Based Compensation

Stock-based compensation was included in our Condensed Consolidated Statements of Income as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Cost of revenues | \$ 1,392 | \$ 962 | \$ 3,806 | \$ 2,800 |
| Research and development | 2,010 | 1,326 | 5,362 | 4,154 |
| Selling, general and administrative | 4,518 | 3,221 | 12,417 | 9,820 |
| Total stock-based compensation | \$ 7,920 | \$ 5,509 | \$ 21,585 | \$ 16,774 |

Unrecognized Compensation Costs

At September 25, 2021, the unrecognized stock-based compensation was as follows (dollars in thousands):

| | Unrecognized Expense | Average Expected Recognition Period in Years |
|---|----------------------|--|
| Restricted stock units | \$ 43,364 | 2.33 |
| Performance restricted stock units | 13,523 | 2.28 |
| Employee stock purchase plan | 1,806 | 0.36 |
| Total unrecognized stock-based compensation expense | \$ 58,693 | 2.26 |

Note 12 — Net Income per Share

The following table reconciles the shares used in calculating basic net income per share and diluted net income per share (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|--|--------------------|--------------------|--------------------|--------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Weighted-average shares used in computing basic net income per share | 77,869 | 77,029 | 77,643 | 76,436 |
| Add potentially dilutive securities | 1,160 | 1,780 | 1,547 | 2,098 |
| Weighted-average shares used in computing diluted net income per share | 79,029 | 78,809 | 79,190 | 78,534 |
| Securities not included as they would have been antidilutive | 121 | 264 | 109 | 354 |

Note 13 — Commitments and Contingencies

Leases

See Note 14, *Leases*.

Contractual Obligations and Commitments

Our contractual obligations and commitments have not materially changed as of September 25, 2021 from those disclosed in our Annual Report on Form 10-K for the year ended December 26, 2020.

Legal Matters

From time to time, we may be subject to legal proceedings and claims in the ordinary course of business. As of September 25, 2021, and as of the filing of this Quarterly Report on Form 10-Q, we were not involved in any material legal proceedings.

Note 14 — Leases

We lease real estate space under non-cancelable operating lease agreements for commercial and industrial space, as well as for our corporate headquarters located in Livermore, California. Our leases have remaining terms of 1 to 7 years, and some leases include options to extend up to 20 years. We also have operating leases for automobiles with remaining lease terms of 1 to 4 years. We did not include any of our renewal options in our lease terms for calculating our lease liability as the renewal options allow us to maintain operational flexibility and we are not reasonably certain we will exercise these options at this time. The weighted-average remaining lease term for our operating leases was 6 years as of September 25, 2021 and the weighted-average discount rate was 3.72%.

The components of lease expense were as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|--------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Lease expense: | | | | |
| Operating lease expense | \$ 2,167 | \$ 1,818 | \$ 6,338 | \$ 5,536 |
| Short-term lease expense | 51 | 32 | 133 | 94 |
| Variable lease expense | 461 | 372 | 1,424 | 1,159 |
| | <u>\$ 2,679</u> | <u>\$ 2,222</u> | <u>\$ 7,895</u> | <u>\$ 6,789</u> |

Future minimum payments under our non-cancelable operating leases were as follows as of September 25, 2021 (in thousands):

| Fiscal Year | Amount |
|--|------------------|
| Remainder of 2021 | \$ 2,116 |
| 2022 | 8,536 |
| 2023 | 7,167 |
| 2024 | 6,744 |
| 2025 | 6,726 |
| Thereafter | 14,815 |
| Total minimum lease payments | 46,104 |
| Less: interest | (5,741) |
| Present value of net minimum lease payments | 40,363 |
| Less: current portion | (7,962) |
| Total long-term operating lease liabilities | \$ 32,401 |

Note 15 — Revenue

Transaction price allocated to the remaining performance obligations: On September 25, 2021, we had \$10.0 million of remaining performance obligations, which were comprised of deferred service contracts and extended warranty contracts and contracts with overtime revenue recognition that are not yet delivered. We expect to recognize approximately 27.9% of our remaining performance obligations as revenue in the remainder of fiscal 2021, approximately 55.8% in fiscal 2022, and approximately 16.3% in fiscal 2023 and thereafter. The foregoing excludes the value of other remaining performance obligations as they have original durations of one year or less, and also excludes information about variable consideration allocated entirely to a wholly unsatisfied performance obligation.

Contract balances: The timing of revenue recognition may differ from the timing of invoicing to customers. Accounts receivable is recorded at the invoiced amount, net of an allowance for doubtful accounts. A receivable is recognized in the period we deliver goods or provide services or when our right to consideration is unconditional. A contract asset is recorded when we have performed under the contract but our right to consideration is conditional on something other than the passage of time. Contract assets as of September 25, 2021 and December 26, 2020 were \$2.4 million and \$3.7 million, respectively, and are reported on the Condensed Consolidated Balance Sheets as a component of Prepaid expenses and other current assets.

Contract liabilities include payments received in advance of performance under a contract and are satisfied as the associated revenue is recognized. Contract liabilities are reported on the Condensed Consolidated Balance Sheets at the end of each reporting period as a component of Deferred revenue and Other liabilities. Contract liabilities as of September 25, 2021 and December 26, 2020 were \$24.3 million and \$22.2 million, respectively. During the nine months ended September 25, 2021, we recognized \$15.0 million of revenue, that was included in contract liabilities as of December 26, 2020.

Costs to obtain a contract: We generally expense sales commissions when incurred as a component of Selling, general and administrative expense, as the amortization period is typically less than one year.

Revenue by Category: Refer to Note 16, *Operating Segments and Enterprise-Wide Information*, for further details.

Note 16 — Operating Segments and Enterprise-Wide Information

Our chief operating decision maker (“CODM”) is our Chief Executive Officer, who reviews operating results to make decisions about allocating resources and assessing performance for the entire company. We operate in two reportable segments consisting

of the Probe Cards segment and the Systems segment. The following table summarizes the operating results by reportable segment (dollars in thousands):

| | Three Months Ended | | | | | | | |
|--------------|--------------------|-----------|---------------------|------------|--------------------|-----------|---------------------|------------|
| | September 25, 2021 | | | | September 26, 2020 | | | |
| | Probe Cards | Systems | Corporate and Other | Total | Probe Cards | Systems | Corporate and Other | Total |
| Revenues | \$ 154,850 | \$ 35,114 | \$ — | \$ 189,964 | \$ 150,773 | \$ 27,223 | \$ — | \$ 177,996 |
| Gross profit | \$ 69,868 | \$ 17,553 | \$ (7,202) | \$ 80,219 | \$ 69,641 | \$ 13,565 | \$ (6,457) | \$ 76,749 |
| Gross margin | 45.1 % | 50.0 % | | 42.2 % | 46.2 % | 49.8 % | | 43.1 % |

| | Nine Months Ended | | | | | | | |
|--------------|--------------------|-----------|---------------------|------------|--------------------|-----------|---------------------|------------|
| | September 25, 2021 | | | | September 26, 2020 | | | |
| | Probe Cards | Systems | Corporate and Other | Total | Probe Cards | Systems | Corporate and Other | Total |
| Revenues | \$ 467,389 | \$ 97,287 | \$ — | \$ 564,676 | \$ 419,272 | \$ 77,301 | \$ — | \$ 496,573 |
| Gross profit | \$ 206,783 | \$ 48,059 | \$ (21,634) | \$ 233,208 | \$ 191,907 | \$ 37,618 | \$ (19,219) | \$ 210,306 |
| Gross margin | 44.2 % | 49.4 % | | 41.3 % | 45.8 % | 48.7 % | | 42.4 % |

Operating results provide useful information to our management for assessment of our performance and results of operations. Certain components of our operating results are utilized to determine executive compensation along with other measures.

Corporate and Other includes unallocated expenses relating to amortization of intangible assets, inventory and fixed asset fair value adjustments due to acquisitions, share-based compensation, and restructuring charges which are not used in evaluating the results of, or in allocating resources to, our reportable segments.

Certain revenue category information by reportable segment was as follows (in thousands):

| | Three Months Ended | | | | | |
|---|--------------------|-----------|------------|--------------------|-----------|------------|
| | September 25, 2021 | | | September 26, 2020 | | |
| | Probe Cards | Systems | Total | Probe Cards | Systems | Total |
| Market: | | | | | | |
| Foundry & Logic | \$ 104,640 | \$ — | \$ 104,640 | \$ 108,411 | \$ — | \$ 108,411 |
| DRAM | 39,816 | — | 39,816 | 31,379 | — | 31,379 |
| Flash | 10,394 | — | 10,394 | 10,983 | — | 10,983 |
| Systems | — | 35,114 | 35,114 | — | 27,223 | 27,223 |
| Total | \$ 154,850 | \$ 35,114 | \$ 189,964 | \$ 150,773 | \$ 27,223 | \$ 177,996 |
| Timing of revenue recognition: | | | | | | |
| Products transferred at a point in time | \$ 154,217 | \$ 33,564 | \$ 187,781 | \$ 150,252 | \$ 25,987 | \$ 176,239 |
| Products and services transferred over time | 633 | 1,550 | 2,183 | 521 | 1,236 | 1,757 |
| Total | \$ 154,850 | \$ 35,114 | \$ 189,964 | \$ 150,773 | \$ 27,223 | \$ 177,996 |
| Geographical region: | | | | | | |
| China | \$ 46,011 | \$ 5,036 | \$ 51,047 | \$ 24,851 | \$ 3,695 | \$ 28,546 |
| Taiwan | 34,100 | 7,474 | 41,574 | 33,351 | 3,584 | 36,935 |
| South Korea | 27,895 | 1,077 | 28,972 | 28,337 | 1,234 | 29,571 |
| United States | 18,530 | 6,938 | 25,468 | 31,596 | 4,732 | 36,328 |
| Asia-Pacific ¹ | 18,566 | 1,315 | 19,881 | 5,505 | 3,449 | 8,954 |
| Japan | 5,767 | 4,961 | 10,728 | 12,288 | 4,857 | 17,145 |
| Europe | 3,595 | 6,891 | 10,486 | 11,679 | 5,300 | 16,979 |
| Rest of the world | 386 | 1,422 | 1,808 | 3,166 | 372 | 3,538 |
| Total | \$ 154,850 | \$ 35,114 | \$ 189,964 | \$ 150,773 | \$ 27,223 | \$ 177,996 |

| | Nine Months Ended | | | | | |
|---|--------------------|-----------|------------|--------------------|-----------|------------|
| | September 25, 2021 | | | September 26, 2020 | | |
| | Probe Cards | Systems | Total | Probe Cards | Systems | Total |
| Market: | | | | | | |
| Foundry & Logic | \$ 321,776 | \$ — | \$ 321,776 | \$ 323,503 | \$ — | \$ 323,503 |
| DRAM | 115,802 | — | 115,802 | 75,127 | — | 75,127 |
| Flash | 29,811 | — | 29,811 | 20,642 | — | 20,642 |
| Systems | — | 97,287 | 97,287 | — | 77,301 | 77,301 |
| Total | \$ 467,389 | \$ 97,287 | \$ 564,676 | \$ 419,272 | \$ 77,301 | \$ 496,573 |
| Timing of revenue recognition: | | | | | | |
| Products transferred at a point in time | \$ 465,822 | \$ 89,119 | \$ 554,941 | \$ 417,529 | \$ 73,393 | \$ 490,922 |
| Products and services transferred over time | 1,567 | 8,168 | 9,735 | 1,743 | 3,908 | 5,651 |
| Total | \$ 467,389 | \$ 97,287 | \$ 564,676 | \$ 419,272 | \$ 77,301 | \$ 496,573 |
| Geographical region: | | | | | | |
| Taiwan | \$ 125,571 | \$ 13,467 | \$ 139,038 | \$ 93,596 | \$ 8,290 | \$ 101,886 |
| China | 107,838 | 17,661 | 125,499 | 107,756 | 13,190 | 120,946 |
| United States | 64,012 | 23,592 | 87,604 | 79,575 | 16,790 | 96,365 |
| South Korea | 81,322 | 2,912 | 84,234 | 56,278 | 2,494 | 58,772 |
| Asia-Pacific ¹ | 59,013 | 4,114 | 63,127 | 14,307 | 9,010 | 23,317 |
| Europe | 12,894 | 19,601 | 32,495 | 36,656 | 15,498 | 52,154 |
| Japan | 14,493 | 13,260 | 27,753 | 24,502 | 11,072 | 35,574 |
| Rest of the world | 2,246 | 2,680 | 4,926 | 6,602 | 957 | 7,559 |
| Total | \$ 467,389 | \$ 97,287 | \$ 564,676 | \$ 419,272 | \$ 77,301 | \$ 496,573 |

¹ Asia-Pacific includes all countries in the region except China, Japan, South Korea, and Taiwan, which are disclosed separately.

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

Cautionary Statement Regarding Forward-Looking Statements

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of the Securities Exchange Act of 1934 and the Securities Act of 1933, which are subject to risks and uncertainties. The forward-looking statements include statements concerning, among other things, our business strategy, financial and operating results, gross margins, liquidity and capital expenditure requirements and impact of accounting standards. In some cases, you can identify these statements by forward-looking words, such as “may,” “might,” “will,” “could,” “should,” “expect,” “plan,” “anticipate,” “believe,” “estimate,” “predict,” “intend” and “continue,” the negative or plural of these words and other comparable terminology.

The forward-looking statements are only predictions based on our current expectations and our projections about future events. All forward-looking statements included in this Quarterly Report on Form 10-Q are based upon information available to us as of the filing date of this Quarterly Report on Form 10-Q. You should not place undue reliance on these forward-looking statements. We have no obligation to update any of these statements. These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from those expressed or implied by these statements, including risks related to general market trends, the benefits of acquisitions and investments, our supply chain, uncertainties related to COVID-19 and the impact of our responses to it, the interpretation and impacts of changes in export controls and other trade barriers, our ability to execute our business strategy and other risks discussed in the section titled “Risk Factors” and elsewhere in our Annual Report on Form 10-K for the year ended December 26, 2020 and in this Quarterly Report on Form 10-Q. You should carefully consider the numerous risks and uncertainties described under these sections.

The following discussion and analysis should be read in conjunction with our condensed consolidated financial statements and the accompanying notes contained in this Quarterly Report on Form 10-Q. Unless expressly stated or the context otherwise requires, the terms “we,” “our,” “us” and “FormFactor” refer to FormFactor, Inc. and its subsidiaries.

Overview

FormFactor, Inc., headquartered in Livermore, California, is a leading provider of test and measurement technologies. We provide a broad range of high-performance probe cards, analytical probes, probe stations, metrology systems, thermal systems and cryogenic systems to both semiconductor companies and scientific institutions. Our products provide electrical and physical information from a variety of semiconductor and electro-optical devices and integrated circuits from early research, through development, to high-volume production. Customers use our products and services to lower production costs, improve yields, and enable development of their complex next-generation products.

We operate in two reportable segments consisting of the Probe Cards segment and the Systems segment. Sales of our probe cards and analytical probes are included in the Probe Cards segment, while sales of our probe stations, metrology systems, and thermal and cryogenic systems are included in the Systems segment.

We generated net income of \$58.0 million in the first nine months of fiscal 2021 as compared to \$59.3 million in the first nine months of fiscal 2020. The small decrease in net income was primarily due to increased revenues, partially offset by slightly lower margins on a lower mix of Foundry & Logic probe card sales and higher taxes on higher taxable income and a higher tax rate due to significant one-time tax benefits during 2020.

Impact of COVID-19

The COVID-19 pandemic continues to cause serious illness and death in many of the regions that we, our customers and our suppliers operate. The COVID-19 pandemic has resulted in significant governmental actions designed to control the spread of the virus, including the imposition of safety requirements and other orders in locations where we have manufacturing and other activities.

We currently continue to operate in all of our manufacturing sites at production levels comparable to those prior to the pandemic, albeit subject to certain safety and related constraints. Our other operations are similarly continuing with substantial work-from-home activities.

If the provisions of governmental health orders or other safety requirements applicable to us or our customers or suppliers become more restrictive for an extended period of time, or if we have repeated occurrences of COVID-19 in any of our facilities, we may experience disruptions or delays in manufacturing, product design, product development, customer support, manufacturing and sales, and an overall loss of productivity and efficiency.

While to date the disruptions in our operations, supply chain and customer demand as a result of the COVID-19 pandemic have been somewhat limited, we believe that the COVID-19 pandemic represents a sustained threat that may give rise to a variety of more significant adverse impacts on our business and financial results. For a further description of the uncertainties and business risks associated with the COVID-19 pandemic, see the risk factors discussed in our Annual Report on Form 10-K for the year ended December 26, 2020.

Significant Accounting Policies and the Use of Estimates

Management's Discussion and Analysis and Note 2, *Summary of Significant Accounting Policies*, to the Consolidated Financial Statements in our 2020 Annual Report on Form 10-K describe the significant accounting estimates and significant accounting policies used in preparation of the Consolidated Financial Statements. Actual results in these areas could differ from management's estimates. During the nine months ended September 25, 2021, there were no significant changes in our significant accounting policies or estimates from those reported in our Annual Report on Form 10-K for the year ended December 26, 2020, which was filed with the Securities and Exchange Commission on February 22, 2021.

Results of Operations

The following table sets forth our operating results as a percentage of revenues for the periods indicated:

| | Three Months Ended | | Nine Months Ended | |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Revenues | 100.0 % | 100.0 % | 100.0 % | 100.0 % |
| Cost of revenues | 57.8 | 56.9 | 58.7 | 57.6 |
| Gross profit | 42.2 | 43.1 | 41.3 | 42.4 |
| Operating expenses: | | | | |
| Research and development | 13.7 | 12.9 | 13.4 | 13.1 |
| Selling, general and administrative | 16.3 | 17.9 | 16.2 | 16.6 |
| Total operating expenses | 30.0 | 30.8 | 29.6 | 29.7 |
| Operating income | 12.2 | 12.3 | 11.7 | 12.7 |
| Interest income | 0.1 | 0.1 | 0.1 | 0.3 |
| Interest expense | (0.1) | (0.1) | (0.1) | (0.1) |
| Other expense, net | 0.1 | 0.2 | — | — |
| Income before income taxes | 12.3 | 12.5 | 11.7 | 12.9 |
| Provision (benefit) for income taxes | 1.5 | (0.3) | 1.4 | 0.9 |
| Net income | 10.8 % | 12.8 % | 10.3 % | 12.0 % |

Revenues by Segment and Market

| | Three Months Ended | | Nine Months Ended | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| | (In thousands) | | | |
| Probe Cards | \$ 154,850 | \$ 150,773 | \$ 467,389 | \$ 419,272 |
| Systems | 35,114 | 27,223 | 97,287 | 77,301 |
| | <u>\$ 189,964</u> | <u>\$ 177,996</u> | <u>\$ 564,676</u> | <u>\$ 496,573</u> |

| Three Months Ended | | | | | | |
|-------------------------------|-------------------------------|----------------------|-------------------------------|----------------------|------------------|-----------------|
| | September 25, 2021 | % of Revenues | September 26, 2020 | % of Revenues | \$ Change | % Change |
| (Dollars in thousands) | | | | | | |
| Probe Cards Markets: | | | | | | |
| Foundry & Logic | \$ 104,640 | 55.1 % | \$ 108,411 | 60.9 % | \$ (3,771) | (3.5)% |
| DRAM | 39,816 | 20.9 | 31,379 | 17.6 | 8,437 | 26.9 |
| Flash | 10,394 | 5.5 | 10,983 | 6.2 | (589) | (5.4) |
| Systems Market: | | | | | | |
| Systems | 35,114 | 18.5 | 27,223 | 15.3 | 7,891 | 29.0 |
| Total revenues | \$ 189,964 | 100.0 % | \$ 177,996 | 100.0 % | \$ 11,968 | 6.7 % |
| Nine Months Ended | | | | | | |
| | September 25, 2021 | % of Revenues | September 26, 2020 | % of Revenues | \$ Change | % Change |
| (Dollars in thousands) | | | | | | |
| Probe Cards Markets: | | | | | | |
| Foundry & Logic | \$ 321,776 | 57.0 % | \$ 323,503 | 65.1 % | \$ (1,727) | (0.5)% |
| DRAM | 115,802 | 20.5 | 75,127 | 15.1 | 40,675 | 54.1 |
| Flash | 29,811 | 5.3 | 20,642 | 4.2 | 9,169 | 44.4 |
| Systems Market: | | | | | | |
| Systems | 97,287 | 17.2 | 77,301 | 15.6 | 19,986 | 25.9 |
| Total revenues | \$ 564,676 | 100.0 % | \$ 496,573 | 100.0 % | \$ 68,103 | 13.7 % |

The decrease in Foundry & Logic product revenue for the three months ended September 25, 2021, compared to the three months ended September 26, 2020, was driven by lower demand from two major customers, partially offset by increased unit sales to other large semiconductor foundries and integrated device manufacturers. The decrease for the nine months ended September 25, 2021, compared to the nine months ended September 26, 2020, was driven by lower demand from one major customer, partially offset by increased unit sales to other large semiconductor foundries and integrated device manufacturers. The relative stability of our overall revenue, despite these fluctuations, is the result of our long-term customer and market diversification initiatives.

The increase in DRAM product revenue for the three and nine months ended September 25, 2021, compared to the three and nine months ended September 26, 2020, was driven by increased sales to several customers and strong market-based demand for DRAM products through the first three quarters of fiscal 2021.

Flash product revenue was down slightly for the three months ended September 25, 2021, compared to the three months ended September 26, 2020, with shifts between customers that are typical as our revenue in this market continues to be highly variable. The increase in Flash product revenue for the nine months ended September 25, 2021, compared to the nine months ended September 26, 2020, was driven by increased sales resulting from the acquisition of Baldwin Park offset by decreased sales as a result of decreased customer demand for our existing products.

The increase in Systems product revenue for the three and nine months ended September 25, 2021, compared to the three and nine months ended September 26, 2020, was driven by increased sales of cryogenic systems due to the acquisition of High Precision Devices, Inc. ("HPD") and increased sales of thermal sub-systems and metrology systems.

Revenues by Geographic Region

| | Three Months Ended | | | | Nine Months Ended | | | |
|---------------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
| | September 25, 2021 | % of Revenue | September 26, 2020 | % of Revenue | September 25, 2021 | % of Revenue | September 26, 2020 | % of Revenue |
| (Dollars in thousands) | | | | | | | | |
| Taiwan | \$ 41,574 | 21.9 % | \$ 36,935 | 20.8 % | \$ 139,038 | 24.6 % | \$ 101,886 | 20.5 % |
| China | 51,047 | 26.8 | 28,546 | 16.0 | 125,499 | 22.2 | 120,946 | 24.4 |
| United States | 25,468 | 13.4 | 36,328 | 20.4 | 87,604 | 15.5 | 96,365 | 19.4 |
| South Korea | 28,972 | 15.3 | 29,571 | 16.6 | 84,234 | 14.9 | 58,772 | 11.8 |
| Asia-Pacific ¹ | 19,881 | 10.5 | 8,954 | 5.0 | 63,127 | 11.2 | 23,317 | 4.7 |
| Europe | 10,486 | 5.5 | 16,979 | 9.5 | 32,495 | 5.8 | 52,154 | 10.5 |
| Japan | 10,728 | 5.6 | 17,145 | 9.6 | 27,753 | 4.9 | 35,574 | 7.2 |
| Rest of the world | 1,808 | 1.0 | 3,538 | 2.1 | 4,926 | 0.9 | 7,559 | 1.5 |
| Total revenues | \$ 189,964 | 100.0 % | \$ 177,996 | 100.0 % | \$ 564,676 | 100.0 % | \$ 496,573 | 100.0 % |

¹ Asia-Pacific includes all countries in the region except China, Japan, South Korea and Taiwan, which are disclosed separately.

Geographic revenue information is based on the location to which we ship the product. For example, if a certain South Korean customer purchases through their U.S. subsidiary and requests the products to be shipped to an address in South Korea, this sale will be reflected in the revenue for South Korea rather than the U.S.

Changes in revenue by geographic region for the three and nine months ended September 25, 2021, compared to the three and nine months ended September 26, 2020, were primarily attributable to changes in customer demand, shifts in customer regional manufacturing strategies, particularly with our large multinational customers, and product sales mix.

Cost of Revenues and Gross Margins

Cost of revenues consists primarily of manufacturing materials, compensation and benefits, shipping and handling costs, manufacturing-related overhead and amortization of certain intangible assets. Our manufacturing operations rely on a limited number of suppliers to provide key components and materials for our products, some of which are a sole source. We order materials and supplies based on backlog and forecasted customer orders. Tooling and setup costs related to changing manufacturing lots at our suppliers are also included in the cost of revenues. We expense all warranty costs, inventory provisions and amortization of certain intangible assets as cost of revenues.

Our gross profit and gross margin were as follows (dollars in thousands):

| | Three Months Ended | | | |
|--------------|-----------------------|-----------------------|-----------|----------|
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| Gross profit | \$ 80,219 | \$ 76,749 | \$ 3,470 | 4.5 % |
| Gross margin | 42.2 % | 43.1 % | | |

| | Nine Months Ended | | | |
|--------------|-----------------------|-----------------------|-----------|----------|
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| Gross profit | \$ 233,208 | \$ 210,306 | \$ 22,902 | 10.9 % |
| Gross margin | 41.3 % | 42.4 % | | |

Our gross profit and gross margin by segment were as follows (dollars in thousands):

| | Three Months Ended | | | | | | | |
|--------------|--------------------|-----------|---------------------|-----------|--------------------|-----------|---------------------|-----------|
| | September 25, 2021 | | | | September 26, 2020 | | | |
| | Probe Cards | Systems | Corporate and Other | Total | Probe Cards | Systems | Corporate and Other | Total |
| Gross profit | \$ 69,868 | \$ 17,553 | \$ (7,202) | \$ 80,219 | \$ 69,641 | \$ 13,565 | \$ (6,457) | \$ 76,749 |
| Gross margin | 45.1 % | 50.0 % | | 42.2 % | 46.2 % | 49.8 % | | 43.1 % |

| | Nine Months Ended | | | | | | | |
|--------------|--------------------|-----------|---------------------|------------|--------------------|-----------|---------------------|------------|
| | September 25, 2021 | | | | September 26, 2020 | | | |
| | Probe Cards | Systems | Corporate and Other | Total | Probe Cards | Systems | Corporate and Other | Total |
| Gross profit | \$206,783 | \$ 48,059 | \$ (21,634) | \$ 233,208 | \$191,907 | \$ 37,618 | \$ (19,219) | \$ 210,306 |
| Gross margin | 44.2 % | 49.4 % | | 41.3 % | 45.8 % | 48.7 % | | 42.4 % |

Probe Cards

For the three and nine months ended September 25, 2021, gross margins decreased compared to the three and nine months ended September 26, 2020, primarily due to higher material costs driven by fluctuations in commodity costs, somewhat offset by higher standard margins on Foundry & Logic sales.

Systems

For the three and nine months ended September 25, 2021, gross margins increased compared to the three and nine months ended September 26, 2020, primarily as a result of favorable product mix, largely related to increased sales of metrology systems and thermal sub-systems.

Corporate and Other

Corporate and Other includes unallocated expenses relating to share-based compensation and amortization of intangible assets, inventory and fixed asset fair value adjustments due to acquisitions, and restructuring which are not used in evaluating the results of, or in allocating resources to, our reportable segments.

Overall

Gross profit and gross margins fluctuate with revenue levels, product mix, selling prices, factory loading and material costs. For the three and nine months ended September 25, 2021, compared to the three and nine months ended September 26, 2020, gross profit has increased on greater revenue levels while gross margins have decreased, primarily on higher material costs, partially offset by a more favorable product mix.

Cost of revenues included stock-based compensation expense as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|--------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Stock-based compensation | \$ 1,392 | \$ 962 | \$ 3,806 | \$ 2,800 |

Research and Development

| | Three Months Ended | | | |
|--------------------------|------------------------|-----------------------|-----------|----------|
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| | (Dollars in thousands) | | | |
| Research and development | \$ 26,026 | \$ 22,878 | \$ 3,148 | 13.8 % |
| % of revenues | 13.7 % | 12.9 % | | |
| | Nine Months Ended | | | |
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| | (Dollars in thousands) | | | |
| Research and development | \$ 75,526 | \$ 65,064 | \$ 10,462 | 16.1 % |
| % of revenues | 13.4 % | 13.1 % | | |

The increase in research and development expenses in the three and nine months ended September 25, 2021 when compared to the corresponding period in the prior year was primarily driven by our recent acquisitions of Baldwin Park and HPD, which increased headcount and general operational costs. Annual salary increases, higher stock-based compensation, and restructuring charges also contributed to the increase.

A detail of the changes is as follows (in thousands):

| | Three Months Ended September 25, 2021 compared to Three Months Ended September 26, 2020 | Nine Months Ended September 25, 2021 compared to Nine Months Ended September 26, 2020 |
|-----------------------------|---|---|
| Employee compensation costs | \$ 1,330 | \$ 5,354 |
| Stock-based compensation | 684 | 1,208 |
| Restructuring charges | 289 | 694 |
| Project material costs | (129) | 381 |
| Depreciation | (21) | 239 |
| Other general operations | 995 | 2,586 |
| | <u>\$ 3,148</u> | <u>\$ 10,462</u> |

Research and development included stock-based compensation expense as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Stock-based compensation | \$ 2,010 | \$ 1,326 | \$ 5,362 | \$ 4,154 |

Selling, General and Administrative

| | Three Months Ended | | | |
|-------------------------------------|------------------------|-----------------------|-----------|----------|
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| | (Dollars in thousands) | | | |
| Selling, general and administrative | \$ 30,940 | \$ 31,834 | \$ (894) | (2.8)% |
| % of revenues | 16.3 % | 17.9 % | | |
| | Nine Months Ended | | | |
| | September 25, 2021 | September 26, 2020 | \$ Change | % Change |
| | (Dollars in thousands) | | | |
| Selling, general and administrative | \$ 91,434 | \$ 82,282 | \$ 9,152 | 11.1 % |
| % of revenues | 16.2 % | 16.6 % | | |

The decrease in selling, general and administrative expenses in the three months ended September 25, 2021 when compared to the corresponding period in the prior year was primarily driven by decreased information technology security remediation costs that were incurred during the three months ended September 26, 2020 that did not repeat. This decrease was partially offset by higher stock-based compensation.

The increase in selling, general and administrative expenses in the nine months ended September 25, 2021 when compared to the corresponding period in the prior year was primarily driven by our recent acquisitions of Baldwin Park and HPD, which increased headcount and general operational costs. Annual salary increases and higher stock-based compensation also contributed to the increases. These increases were partially offset by the benefit in the prior year related to adjustments to contingent consideration for the acquisition of FRT GmbH ("FRT") and information technology security remediation costs that both did not repeat.

A detail of the changes is as follows (in thousands):

| | Three Months Ended September 25, 2021 compared to Three Months Ended September 26, 2020 | Nine Months Ended September 25, 2021 compared to Nine Months Ended September 26, 2020 |
|----------------------------------|---|---|
| Employee compensation costs | \$ 331 | \$ 5,235 |
| Gain on contingent consideration | 71 | 3,676 |
| Consulting fees | (3,368) | (3,402) |
| Stock-based compensation | 1,297 | 2,597 |
| General operating expenses | 562 | 1,066 |
| Travel related costs | 156 | (341) |
| Amortization of intangibles | 57 | 321 |
| | \$ (894) | \$ 9,152 |

Selling, general and administrative included stock-based compensation expense as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| Stock-based compensation | \$ 4,518 | \$ 3,221 | \$ 12,417 | \$ 9,820 |

Interest Income and Interest Expense

| | Three Months Ended | | Nine Months Ended | |
|--|------------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| | (Dollars in thousands) | | | |
| Interest Income | \$ 121 | \$ 249 | \$ 463 | \$ 1,310 |
| Weighted average balance of cash and investments | \$ 257,851 | \$ 243,615 | \$ 262,475 | \$ 230,098 |
| Weighted average yield on cash and investments | 0.26 % | 0.57 % | 0.32 % | 1.03 % |
| Interest Expense | \$ 151 | \$ 193 | \$ 447 | \$ 682 |
| Average debt outstanding | \$ 27,810 | \$ 37,295 | \$ 30,214 | \$ 38,327 |
| Weighted average interest rate on debt | 1.59 % | 1.65 % | 1.58 % | 2.05 % |

Interest income is earned on our cash, cash equivalents, restricted cash and marketable securities. The decrease in interest income for the three and nine months ended September 25, 2021 compared with the corresponding period of the prior year was attributable to lower investment yields due to the low interest rate environment, despite higher invested balances.

Interest expense primarily includes interest on our term loans, interest rate swap derivative contracts, and term loan issuance costs amortization charges. The decrease in interest expense for the three and nine months ended September 25, 2021 compared to the same period of the prior year was primarily due to lower outstanding debt balances due to the June 30, 2020 pay-off of the term loan originated to acquire Cascade Microtech, Inc, partially offset by the Building Term Loan originated in the second quarter of 2020. Interest expense was also lower due to lower average interest rates on the outstanding debt.

Other Income (Expense), Net

Other income (expense), net, primarily includes the effects of foreign currency impact and various other gains and losses.

Provision for Income Taxes

| | Three Months Ended | | Nine Months Ended | |
|--------------------------------------|------------------------------------|-----------------------|-----------------------|-----------------------|
| | September 25, 2021 | September 26, 2020 | September 25, 2021 | September 26, 2020 |
| | (In thousands, except percentages) | | | |
| Provision (benefit) for income taxes | \$ 2,784 | \$ (499) | \$ 8,273 | \$ 4,479 |
| Effective tax rate | 12.0 % | (2.2)% | 12.5 % | 7.0 % |

Provision for income taxes reflects the tax provision on our operations in foreign and U.S. jurisdictions, offset by tax benefits from tax credits and the foreign-derived intangible income (“FDII”) deduction. Our effective tax rate may vary from period to period based on changes in estimated taxable income or loss by jurisdiction, changes to the valuation allowance, changes to U.S. federal, state or foreign tax laws, changes in ASC 718 stock-based compensation expense/benefit, future expansion into areas with varying country, state, and local income tax rates, and deductibility of certain costs and expenses by jurisdiction. We have utilized our previous net operating loss carryforwards, and expect the FDII deduction and corresponding benefit to be available, resulting in a decrease from the U.S. statutory rate and included in our worldwide effective tax rate for the year ending December 25, 2021.

The increase in the effective tax rate in the nine months ended September 25, 2021 when compared to the corresponding period in the prior year was primarily driven by the cumulative effect of adjustments made related to final and proposed Treasury regulations during the third quarter ended September 26, 2020. The regulations under Sections 951A and 954 provided final global intangible low-taxed income (GILTI) high-tax exclusion and proposed changes to the existing subpart F income high-tax exception, respectively. The impact of those adjustments provided a significant one time tax benefit during 2020.

Liquidity and Capital Resources

Capital Resources

Our working capital was \$346.5 million at September 25, 2021, compared to \$332.5 million at December 26, 2020.

Cash and cash equivalents primarily consist of deposits held at banks, money market funds, and U.S. treasuries. Marketable securities primarily consist of U.S. treasuries, corporate bonds, and commercial paper. We typically invest in highly-rated

securities with low probabilities of default. Our investment policy requires investments to be rated single A or better, and limits the types of acceptable investments, issuer concentration and duration of the investment.

Our cash, cash equivalents and marketable securities totaled approximately \$264.7 million at September 25, 2021, compared to \$255.0 million at December 26, 2020. We believe that we will be able to satisfy our working capital requirements and scheduled term loan repayments for at least the next twelve months with the liquidity provided by our existing cash, cash equivalents, marketable securities and cash provided by operations. To the extent necessary, we may consider entering into short and long-term debt obligations, raising cash through a stock issuance, or obtaining new financing facilities, which may not be available on terms favorable to us. Our future capital requirements may vary materially from those now planned.

The COVID-19 pandemic has negatively impacted the global economy, disrupted global supply chains and created significant volatility and disruption of financial markets. An extended period of global supply chain and economic disruption could materially affect our business, results of operations, access to sources of liquidity and financial condition.

If we are unsuccessful in maintaining or growing our revenues, maintaining or reducing our cost structure (in response to a potential reduction in demand due to an industry downturn, COVID-19, or other event), or increasing our available cash through debt or equity financings, our cash, cash equivalents and marketable securities may decline.

We utilize a variety of tax planning and financing strategies to manage our worldwide cash and deploy funds to locations where needed. As part of these strategies, we indefinitely reinvest a portion of our foreign earnings. Should we require additional capital in the United States, we may elect to repatriate indefinitely-reinvested foreign funds or raise capital in the United States.

Cash Flows

The following table sets forth our net cash flows from operating, investing and financing activities:

| | Nine Months Ended | |
|---|-------------------------------|-------------------------------|
| | September 25, 2021 | September 26, 2020 |
| | (In thousands) | |
| Net cash provided by operating activities | \$ 100,437 | \$ 124,209 |
| Net cash used in investing activities | \$ (94,976) | \$ (56,195) |
| Net cash used in financing activities | \$ (36,869) | \$ (28,970) |

Operating Activities

Net cash provided by operating activities for the nine months ended September 25, 2021 was primarily attributable to net income of \$58.0 million and net non-cash expenses of \$77.4 million, further impacted by changes in operating assets and liabilities, as explained below.

Inventories, net, increased \$15.9 million to \$115.1 million at September 25, 2021, compared to \$99.2 million at December 26, 2020, as a result of anticipated projected customer demand. Due to provisions for excess and obsolete inventories of \$11.6 million and non-cash restructuring charges to record inventory impairments of \$1.3 million, the change in Inventories, net, was further impacted.

Operating lease liabilities increased \$5.7 million to \$40.4 million at September 25, 2021, compared to \$34.7 million at December 26, 2020 as a result of additional right-of-use assets obtained in exchange for lease obligations of \$11.7 million offset by lease payments.

Investing Activities

Net cash used in investing activities for the nine months ended September 25, 2021 was primarily related to \$51.4 million property, plant and equipment acquisitions, and \$43.6 million net cash used to purchase marketable securities.

Financing Activities

Net cash used in financing activities for the nine months ended September 25, 2021 primarily related to \$24.0 million used to purchase common stock under our stock repurchase program, \$12.6 million related to tax withholding associated with the net share settlements of our equity awards, \$7.0 million of principal payments made towards the repayment of our term loans, and \$3.9 million paid to settle the contingent consideration from the acquisition of FRT, partially offset by \$10.6 million of proceeds received from issuances of common stock under our employee stock purchase plan and stock option plans.

Debt

FRT Term Loan

On October 25, 2019, we entered into a \$23.4 million three-year credit facility loan agreement (the “FRT Term Loan”), to fund the acquisition of FRT GmbH, which we acquired on October 9, 2019.

The FRT Term Loan bears interest at a rate equal to the Euro Interbank Offered Rate (“EURIBOR”) plus 1.75% per annum and will be repaid in quarterly installments of approximately \$2.0 million plus interest. The interest rate at September 25, 2021 was 1.20%. As of September 25, 2021, the balance outstanding pursuant to the FRT term loan was \$10.3 million.

Building Term Loan

On June 22, 2020, we entered into an \$18.0 million 15-year credit facility loan agreement (the “Building Term Loan”). The proceeds of the Building Term Loan were used to finance the purchase a building adjacent to our leased facilities in Livermore, California.

The Building Term Loan bears interest at a rate equal to the applicable LIBOR rate plus 1.75% per annum. Interest payments are payable in monthly installments over a fifteen-year period. The interest rate at September 25, 2021 was 1.84%. As of September 25, 2021, the balance outstanding pursuant to the Building Term Loan was \$16.8 million.

On March 17, 2020, we entered into a forward starting interest rate swap agreement to hedge the interest payments on the Building Term Loan for the notional amount of \$18.0 million, and an amortization period that matches the debt. As future levels of LIBOR over the life of the loan are uncertain, we entered into this interest-rate swap agreement to hedge the exposure in interest rate risks associated with movement in LIBOR rates. By entering into the agreement, we converted a floating rate interest at one-month LIBOR plus 1.75% into a fixed rate interest at 2.75%. As of September 25, 2021, the notional amount of the loan that is subject to this interest rate swap is \$16.8 million.

Stock Repurchase Program

In October 2020, our Board of Directors authorized a program to repurchase up to \$50.0 million of outstanding common stock to offset potential dilution from issuances of common stock under our stock-based compensation plans. The share repurchase program will expire on October 28, 2022. During the nine months ended September 25, 2021, we repurchased 620,200 shares of common stock for \$24.0 million and, as of September 25, 2021, \$26.0 million remained available for future repurchases.

Contractual Obligations and Commitments

The following table summarizes our significant contractual commitments to make future payments in cash under contractual obligations as of September 25, 2021:

| | Payments Due In Fiscal Year | | | | | | | Total |
|---|-----------------------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|-------|
| | Remainder 2021 | 2022 | 2023 | 2024 | 2025 | Thereafter | | |
| Operating leases | \$ 2,116 | \$ 8,536 | \$ 7,167 | \$ 6,744 | \$ 6,726 | \$ 14,815 | \$ 46,104 | |
| Term loans - principal payments | 2,302 | 9,225 | 1,050 | 1,080 | 1,111 | 12,258 | 27,026 | |
| Term loans - interest payments ⁽¹⁾ | 109 | 361 | 280 | 261 | 239 | 1,142 | 2,392 | |
| Total | <u>\$ 4,527</u> | <u>\$ 18,122</u> | <u>\$ 8,497</u> | <u>\$ 8,085</u> | <u>\$ 8,076</u> | <u>\$ 28,215</u> | <u>\$ 75,522</u> | |

⁽¹⁾ Represents our minimum interest payment commitments at 1.84% per annum for the Building Term Loan and 1.20% per annum for the FRT Term Loan. This also excludes any amounts related to our interest rate swap.

Off-Balance Sheet Arrangements

Historically, we have not participated in transactions that have generated relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. As of September 25, 2021, we were not involved in any such off-balance sheet arrangements.

Recent Accounting Pronouncements

See Note 1, *Basis of Presentation and New Accounting Pronouncements*, of Notes to Condensed Consolidated Financial Statements.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

For financial market risks related to changes in interest rates and foreign currency exchange rates, reference is made to Item 7A “Quantitative and Qualitative Disclosures about Market Risk” contained in Part II of our Annual Report on Form 10-K for the fiscal year ended December 26, 2020. Our exposure to market risk has not changed materially since December 26, 2020.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Based on our management’s evaluation (with the participation of our principal executive officer and principal financial officer), as of the end of the period covered by this report, our principal executive officer and principal financial officer have concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, (the “Exchange Act”)) are effective 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 is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the period covered by this Quarterly Report on Form 10-Q that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Limitations on the Effectiveness of Controls

Control systems, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control systems’ objectives are being met. Further, the design of any control systems must reflect the fact that there are resource constraints, and the benefits of all controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within our company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty and that breakdowns can occur because of a simple error or mistake. Control systems can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based, in part, on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

CEO and CFO Certifications

We have attached as exhibits to this Quarterly Report on Form 10-Q the certifications of our Chief Executive Officer and Chief Financial Officer, which are required in accordance with the Exchange Act. We recommend that this Item 4 be read in conjunction with the certifications for a more complete understanding of the subject matter presented.

PART II - OTHER INFORMATION

Item 1A. Risk Factors

There have been no material changes during the nine months ended September 25, 2021 to the risk factors discussed in our Annual Report on Form 10-K for the year ended December 26, 2020. If any of the identified risks actually occur, our business, financial condition and results of operations could suffer. The trading price of our common stock could decline and you may lose all or part of your investment in our common stock. The risks and uncertainties described in our Annual Report on Form 10-K for the year ended December 26, 2020 are not the only ones we face. Additional risks that we currently do not know about or that we currently believe to be immaterial may also impair our business operations.

Item 6. Exhibits

The following exhibits are filed herewith and this list constitutes the exhibit index.

| Exhibit Number | Exhibit Description | Incorporated by Reference | | | Filed Herewith |
|----------------|--|---------------------------|------------------|--------|----------------|
| | | Form | Date | Number | |
| 3.1 | Amended and Restated Certificate of Incorporation of the Registrant as filed with the Delaware Secretary of State on June 17, 2003 | S-1 | October 20, 2003 | 3.01 | |
| 3.2 | Amended and Restated Bylaws of the Registrant | 8-K | July 22, 2016 | 3.2 | |
| 31.01 | Certification of Chief Executive Officer pursuant to 15 U.S.C. Section 7241, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | | | | X |
| 31.02 | Certification of Chief Financial Officer pursuant to 15 U.S.C. Section 7241, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | | | | X |
| 32.01 | Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 | | | | * |
| 101 | The following financial statements from the Company's Quarterly Report on Form 10-Q for the quarter ended September 25, 2021, formatted in Inline XBRL: (i) Condensed Consolidated Balance Sheets, (ii) Condensed Consolidated Statements of Income, (iii) Condensed Consolidated Statements of Comprehensive Income, (iv) Condensed Consolidated Statements of Stockholders' Equity, (v) Condensed Consolidated Statements of Cash Flows, and (vi) Notes to Condensed Consolidated Financial Statements, tagged as blocks of text and including detailed tags | | | | X |
| 101.INS | XBRL Instance Document | | | | X |
| 101.SCH | XBRL Taxonomy Extension Schema Document | | | | X |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document | | | | X |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document | | | | X |
| 101.LAB | XBRL Taxonomy Extension Label Linkbase Document | | | | X |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document | | | | X |
| 104 | The cover page from the Company's Quarterly Report on Form 10-Q for the quarter ended September 25, 2021, formatted in Inline XBRL (included as Exhibit 101) | | | | X |

* This exhibit shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, whether made before or after the date hereof and irrespective of any general incorporation language in any filings.

SIGNATURE

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.

FormFactor, Inc.

Date: November 2, 2021

By: /s/ SHAI SHAHAR

Shai Shahar
Chief Financial Officer
*(Duly Authorized Officer, Principal Financial Officer, and
Principal Accounting Officer)*

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER
PURSUANT TO 15 U.S.C. SECTION 7241, AS
ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael D. Slessor, certify that:

1. I have reviewed the quarterly report on Form 10-Q of FormFactor, Inc.;
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 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this 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
 - d. Disclosed in the quarterly report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 2, 2021

/s/ MICHAEL D. SLESSOR

Michael D. Slessor
Chief Executive Officer
(Principal Executive Officer and Director)

**CERTIFICATION OF CHIEF FINANCIAL OFFICER
PURSUANT TO 15 U.S.C. SECTION 7241,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Shai Shahar, certify that:

1. I have reviewed the quarterly report on Form 10-Q of FormFactor, Inc.;
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 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)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this 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
 - d. Disclosed in the quarterly report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 2, 2021

/s/ SHAI SHAHAR

Shai Shahar

Chief Financial Officer

(Principal Financial Officer and Principal Accounting Officer)

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

In connection with the Quarterly Report on Form 10-Q of FormFactor, Inc., a Delaware corporation, for the period ended September 25, 2021, as filed with the Securities and Exchange Commission, each of the undersigned officers of FormFactor, Inc. certifies pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his respective knowledge:

1. The quarterly report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
2. The information contained in the quarterly report fairly presents, in all material respects, the financial condition and results of operations of FormFactor, Inc. for the periods presented therein.

Date: November 2, 2021

/s/ MICHAEL D. SLESSOR

Michael D. Slessor

Chief Executive Officer

(Principal Executive Officer and Director)

Date: November 2, 2021

/s/ SHAI SHAHAR

Shai Shahar

Chief Financial Officer

(Principal Financial Officer and Principal Accounting Officer)