

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 30, 2020

OR

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

Commission file number: 000-51026

Monolithic Power Systems, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

77-0466789
(I.R.S. Employer
Identification Number)

5808 Lake Washington Blvd. NE, Kirkland, Washington 98033
(Address of principal executive offices)(Zip Code)

(425) 296-9956
(Registrant's telephone number, including area code)

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

Title of each class	Trading Symbol	Name of each exchange on which registered
Common Stock, par value \$0.001 per share	MPWR	The NASDAQ Global Select 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 has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of 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 Exchange Act.

Large accelerated filer ☒
Smaller reporting company ☐

Accelerated filer ☐
Emerging growth company ☐

Non-accelerated filer ☐

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 ☒

There were 45,097,000 shares of the registrant's common stock issued and outstanding as of November 2, 2020.

MONOLITHIC POWER SYSTEMS, INC.

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PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

MONOLITHIC POWER SYSTEMS, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS
(in thousands, except par value)
(unaudited)

	September 30, 2020	December 31, 2019
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 179,466	\$ 172,960
Short-term investments	372,076	282,437
Accounts receivable, net	93,535	52,704
Inventories	148,096	127,500
Other current assets	25,970	19,605
Total current assets	819,143	655,206
Property and equipment, net	270,310	228,315
Long-term investments	2,916	3,138
Goodwill	6,571	6,571
Deferred tax assets, net	13,486	17,193
Other long-term assets	48,868	45,952
Total assets	\$ 1,161,294	\$ 956,375
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 48,142	\$ 27,271
Accrued compensation and related benefits	48,362	26,164
Other accrued liabilities	61,774	44,790
Total current liabilities	158,278	98,225
Income tax liabilities	35,624	37,596
Other long-term liabilities	52,823	47,063
Total liabilities	246,725	182,884
Commitments and contingencies		
Stockholders' equity:		
Common stock and additional paid-in capital: \$0.001 par value; shares authorized: 150,000; shares issued and outstanding: 45,096 and 43,616, respectively	632,432	549,517
Retained earnings	279,653	229,450
Accumulated other comprehensive income (loss)	2,484	(5,476)
Total stockholders' equity	914,569	773,491
Total liabilities and stockholders' equity	\$ 1,161,294	\$ 956,375

See accompanying notes to unaudited condensed consolidated financial statements.

MONOLITHIC POWER SYSTEMS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(in thousands, except per-share amounts)
(unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Revenue	\$ 259,422	\$ 168,813	\$ 611,409	\$ 461,183
Cost of revenue	116,382	75,655	274,329	206,794
Gross profit	143,040	93,158	337,080	254,389
Operating expenses:				
Research and development	37,717	27,742	95,346	80,746
Selling, general and administrative	43,503	34,692	116,550	100,302
Litigation expense	1,841	692	6,264	1,473
Total operating expenses	83,061	63,126	218,160	182,521
Income from operations	59,979	30,032	118,920	71,868
Other income, net	2,494	2,257	5,980	7,827
Income before income taxes	62,473	32,289	124,900	79,695
Income tax expense	6,907	2,761	3,412	3,293
Net income	\$ 55,566	\$ 29,528	\$ 121,488	\$ 76,402
Net income per share:				
Basic	\$ 1.24	\$ 0.68	\$ 2.72	\$ 1.77
Diluted	\$ 1.18	\$ 0.64	\$ 2.59	\$ 1.68
Weighted-average shares outstanding:				
Basic	44,970	43,308	44,737	43,055
Diluted	46,955	45,833	46,819	45,516

See accompanying notes to unaudited condensed consolidated financial statements.

MONOLITHIC POWER SYSTEMS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(in thousands)
(unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Net income	\$ 55,566	\$ 29,528	\$ 121,488	\$ 76,402
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	6,936	(6,135)	5,072	(6,167)
Change in unrealized gain (loss) on available-for-sale securities, net of tax of \$30, \$(38), \$(321) and \$(200), respectively	(368)	234	2,888	1,671
Other comprehensive income (loss), net of tax	6,568	(5,901)	7,960	(4,496)
Comprehensive income	<u>\$ 62,134</u>	<u>\$ 23,627</u>	<u>\$ 129,448</u>	<u>\$ 71,906</u>

See accompanying notes to unaudited condensed consolidated financial statements.

MONOLITHIC POWER SYSTEMS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(in thousands, except per-share amounts)
(unaudited)

	Common Stock and Additional Paid-in Capital		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Stockholders' Equity
Three Months Ended September 30, 2020	Shares	Amount			
Balance as of July 1, 2020	44,911	\$ 605,165	\$ 247,864	\$ (4,084)	\$ 848,945
Net income	-	-	55,566	-	55,566
Other comprehensive income	-	-	-	6,568	6,568
Dividends and dividend equivalents declared (\$0.50 per share)	-	-	(23,777)	-	(23,777)
Common stock issued under the employee equity incentive plan	173	2,347	-	-	2,347
Common stock issued under the employee stock purchase plan	12	1,927	-	-	1,927
Stock-based compensation expense	-	22,993	-	-	22,993
Balance as of September 30, 2020	45,096	\$ 632,432	\$ 279,653	\$ 2,484	\$ 914,569

	Common Stock and Additional Paid-in Capital		Retained Earnings	Accumulated Other Comprehensive Loss	Total Stockholders' Equity
Three Months Ended September 30, 2019	Shares	Amount			
Balance as of July 1, 2019	43,234	\$ 503,759	\$ 204,533	\$ (4,138)	\$ 704,154
Net income	-	-	29,528	-	29,528
Other comprehensive loss	-	-	-	(5,901)	(5,901)
Dividends and dividend equivalents declared (\$0.40 per share)	-	-	(18,369)	-	(18,369)
Common stock issued under the employee equity incentive plan	187	2,090	-	-	2,090
Common stock issued under the employee stock purchase plan	14	1,650	-	-	1,650
Stock-based compensation expense	-	21,276	-	-	21,276
Balance as of September 30, 2019	43,435	\$ 528,775	\$ 215,692	\$ (10,039)	\$ 734,428

	Common Stock and Additional Paid-in Capital		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Stockholders' Equity
Nine Months Ended September 30, 2020	Shares	Amount			
Balance as of January 1, 2020	43,616	\$ 549,517	\$ 229,450	\$ (5,476)	\$ 773,491
Net income	-	-	121,488	-	121,488
Other comprehensive income	-	-	-	7,960	7,960
Dividends and dividend equivalents declared (\$1.50 per share)	-	-	(71,285)	-	(71,285)
Common stock issued under the employee equity incentive plan	1,452	16,457	-	-	16,457
Common stock issued under the employee stock purchase plan	28	3,819	-	-	3,819
Stock-based compensation expense	-	62,639	-	-	62,639
Balance as of September 30, 2020	45,096	\$ 632,432	\$ 279,653	\$ 2,484	\$ 914,569

	Common Stock and Additional Paid-in Capital		Retained Earnings	Accumulated Other Comprehensive Loss	Total Stockholders' Equity
Nine Months Ended September 30, 2019	Shares	Amount			
Balance as of January 1, 2019	42,505	\$ 450,908	\$ 194,728	\$ (5,543)	\$ 640,093
Net income	-	-	76,402	-	76,402
Other comprehensive income	-	-	-	(4,496)	(4,496)
Dividends and dividend equivalents declared (\$1.20 per share)	-	-	(55,438)	-	(55,438)
Common stock issued under the employee equity incentive plan	902	14,561	-	-	14,561
Common stock issued under the employee stock purchase plan	28	3,277	-	-	3,277
Stock-based compensation expense	-	60,029	-	-	60,029
Balance as of September 30, 2019	43,435	\$ 528,775	\$ 215,692	\$ (10,039)	\$ 734,428

See accompanying notes to unaudited condensed consolidated financial statements.

MONOLITHIC POWER SYSTEMS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)
(unaudited)

	Nine Months Ended September 30,	
	2020	2019
Cash flows from operating activities:		
Net income	\$ 121,488	\$ 76,402
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	13,785	10,817
(Gain) loss on disposal and sale of property and equipment, net	15	(282)
Amortization of premium on available-for-sale securities	1,984	384
Gain on deferred compensation plan investments	(1,420)	(2,630)
Deferred taxes, net	3,400	(18)
Stock-based compensation expense	62,581	60,019
Changes in operating assets and liabilities:		
Accounts receivable	(40,826)	(3,048)
Inventories	(20,533)	754
Other assets	(6,376)	(5,849)
Accounts payable	19,811	7,173
Accrued compensation and related benefits	21,780	10,328
Income tax liabilities	(1,805)	(6,186)
Other accrued liabilities	14,271	7,453
Net cash provided by operating activities	188,155	155,317
Cash flows from investing activities:		
Purchases of property and equipment	(44,158)	(87,129)
Acquisition of in-place leases	-	(981)
Purchases of short-term investments	(270,797)	(106,409)
Proceeds from maturities and sales of short-term investments	182,355	98,814
Proceeds from sales of long-term investments	250	125
Proceeds from sales of property and equipment	29	9,268
Contributions to deferred compensation plan, net	(1,116)	(1,797)
Net cash used in investing activities	(133,437)	(88,109)
Cash flows from financing activities:		
Property and equipment purchased on extended payment terms	(4,437)	(204)
Proceeds from common stock issued under the employee equity incentive plan	16,457	14,561
Proceeds from common stock issued under the employee stock purchase plan	3,819	3,277
Dividends and dividend equivalents paid	(65,477)	(48,641)
Net cash used in financing activities	(49,638)	(31,007)
Effect of change in exchange rates	1,432	(2,516)
Net increase in cash, cash equivalents and restricted cash	6,512	33,685
Cash, cash equivalents and restricted cash, beginning of period	173,076	172,818
Cash, cash equivalents and restricted cash, end of period	\$ 179,588	\$ 206,503
Supplemental disclosures for cash flow information:		
Cash paid for taxes	\$ 1,036	\$ 9,472
Non-cash investing and financing activities:		
Liability accrued for property and equipment purchases	\$ 9,355	\$ 4,969
Liability accrued for dividends and dividend equivalents	\$ 26,429	\$ 20,866

See accompanying notes to unaudited condensed consolidated financial statements.

MONOLITHIC POWER SYSTEMS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

1. BASIS OF PRESENTATION

The accompanying unaudited condensed consolidated financial statements have been prepared by Monolithic Power Systems, Inc. (the “Company” or “MPS”) in accordance with the rules and regulations of the Securities and Exchange Commission (the “SEC”). Certain information and disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States (“GAAP”) have been condensed or omitted in accordance with these accounting principles, rules and regulations. The information in this report should be read in conjunction with the Company’s audited consolidated financial statements and notes thereto included in the Annual Report on Form 10-K for the year ended December 31, 2019, filed with the SEC on February 28, 2020.

In the opinion of management, the accompanying unaudited condensed consolidated financial statements reflect all adjustments (consisting only of normal recurring adjustments) necessary to present fairly the Company’s financial position, results of operations and cash flows for the interim periods presented. The financial statements contained in this Form 10-Q are not necessarily indicative of the results that may be expected for the year ending December 31, 2020 or for any other future periods.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and reported amounts of revenue and expenses during the reporting period. Significant estimates and assumptions used in these condensed consolidated financial statements primarily include those related to revenue recognition, inventory valuation, valuation of share-based awards, contingencies and income tax valuation allowances.

The coronavirus pandemic first identified in December 2019 (“COVID-19”) has resulted in a global slowdown of economic activity and a decrease in demand for a broad variety of goods and services, while also disrupting business operations for an unknown period of time until the disease is contained. Although these events did not adversely affect the Company’s overall operating results and financial condition for the three and nine months ended September 30, 2020, they could have a negative impact on the Company’s business operations for the remainder of 2020 and beyond. However, the Company is currently unable to predict the size and duration of such impact.

As of the date of issuance of these condensed consolidated financial statements, the Company is not aware of any specific event or circumstance that would require management to update the significant estimates and assumptions used in the preparation of the condensed consolidated financial statements, as compared to those disclosed in the Annual Report on Form 10-K for the year ended December 31, 2019. As new events continue to evolve and additional information becomes available, any changes to these estimates and assumptions will be recognized in the condensed consolidated financial statements as soon as they become known. Actual results could differ from these estimates and assumptions, and any such differences may be material to the Company’s condensed consolidated financial statements.

Recently Adopted Accounting Pronouncements

In August 2018, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) No. 2018-13, *Fair Value Measurement (Topic 820): Disclosure Framework — Changes to the Disclosure Requirements for Fair Value Measurement*, which changes certain disclosure requirements, including those related to Level 3 fair value measurements. The Company adopted the standard in the first quarter of 2020 and the adoption did not have a material impact on its disclosures.

In January 2017, the FASB issued ASU No. 2017-04, *Intangibles – Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment*, which simplifies the accounting for goodwill impairment. The guidance removes step two of the goodwill impairment test, which requires a hypothetical purchase price allocation. A goodwill impairment is the amount by which a reporting unit’s carrying value exceeds its fair value, not to exceed the carrying amount of goodwill. Entities continues to have the option to perform a qualitative assessment to determine if a quantitative impairment test is necessary. The Company adopted the standard in the first quarter of 2020 and the adoption did not have a material impact on its annual goodwill impairment test.

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments – Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments*, which introduces a model based on expected losses to estimate credit losses for most financial assets and certain other instruments. In addition, for available-for-sale debt securities, the standard eliminates the concept of other-than-temporary impairment and entities are required to recognize an allowance for credit losses rather than reductions in the amortized cost of the securities. Entities are required to apply the standard by recording a cumulative-effect adjustment to retained earnings. The Company adopted the standard in the first quarter of 2020, which did not have a material impact on its condensed consolidated financial statements.

Recent Accounting Pronouncement Not Yet Adopted as of September 30, 2020

In December 2019, the FASB issued ASU No. 2019-12, *Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes*, which eliminates certain exceptions related to the approach for intra-period tax allocation, the methodology for calculating income taxes in an interim period and the recognition of deferred tax liabilities for outside basis differences. The standard also clarifies and simplifies other aspects of the accounting for income taxes. The standard will be effective for annual reporting periods beginning after December 15, 2020. Early adoption is permitted. The standard will generally be applied prospectively, with certain exceptions. The Company is currently evaluating the impact of the adoption on its condensed consolidated financial statements.

2. REVENUE RECOGNITION

Revenue from Product Sales

The Company generates revenue primarily from product sales, which include assembled and tested integrated circuits (“ICs”), as well as dies in wafer form. These product sales accounted for 97% and 99% of the Company’s total revenue for the three months ended September 30, 2020 and 2019, respectively, and 98% and 99% of the Company’s total revenue for the nine months ended September 30, 2020 and 2019, respectively. The remaining revenue primarily includes royalty revenue from licensing arrangements and revenue from wafer testing services performed for third parties, which have not been significant in all periods presented. See Note 7 for the disaggregation of the Company’s revenue by geographic regions and by product families.

The Company sells its products primarily through third-party distributors, value-added resellers, original equipment manufacturers (“OEMs”), original design manufacturers (“ODMs”) and electronic manufacturing service (“EMS”) providers. For the three months ended September 30, 2020 and 2019, 75% and 88%, respectively, of the Company’s product sales were made through distribution arrangements. For the nine months ended September 30, 2020 and 2019, 79% and 83%, respectively, of the Company’s product sales were made through distribution arrangements. These distribution arrangements contain enforceable rights and obligations specific to those distributors and not the end customers. Purchase orders, which are generally governed by sales agreements or the Company’s standard terms of sale, set the final terms for unit price, quantity, shipping and payment agreed by both parties. The Company considers purchase orders to be the contracts with customers. The unit price as stated on the purchase orders is considered the observable, stand-alone selling price for the arrangements.

The Company recognizes revenue when it satisfies a performance obligation by transferring control of the promised goods or services to its customers, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those goods or services. The Company excludes taxes assessed by government authorities, such as sales taxes, from revenue.

Product sales consist of a single performance obligation that the Company satisfies at a point in time. The Company recognizes product revenue from distributors and direct end customers when the following events have occurred: (a) the Company has transferred physical possession of the products, (b) the Company has a present right to payment, (c) the customer has legal title to the products, and (d) the customer bears significant risks and rewards of ownership of the products. In accordance with the shipping terms specified in the contracts, these criteria are generally met when the products are shipped from the Company’s facilities (such as the “Ex Works” shipping term) or delivered to the customers’ locations (such as the “Delivered Duty Paid” shipping term).

Under certain consignment agreements, revenue is not recognized when the products are shipped and delivered to be held at customers’ designated locations because the Company continues to control the products and retain ownership, and the customers do not have an unconditional obligation to pay. The Company recognizes revenue when the customers consume the products from the consigned inventory locations or, in some cases, after a 60-day period from the delivery date has passed, at which time control transfers to the customers and the Company invoices them for payment.

Variable Consideration

The Company accounts for price adjustment and stock rotation rights as variable consideration that reduces the transaction price and recognizes that reduction in the same period the associated revenue is recognized. Four U.S.-based distributors have price adjustment rights when they sell the Company’s products to their end customers at a price that is lower than the distribution price invoiced by the Company. When the Company receives claims from the distributors that products have been sold to the end customers at the lower price, the Company issues the distributors credit memos for the price adjustments. The Company estimates the price adjustments using the expected value method based on an analysis of historical claims, at both the distributor and product level, as well as an assessment of any known trends of product sales mix. Other U.S. distributors and non-U.S. distributors, which make up the majority of the Company’s total sales to distributors, do not have price adjustment rights. The Company records a credit against accounts receivable for the estimated price adjustments, with a corresponding reduction to revenue.

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Certain distributors have limited stock rotation rights that permit the return of a small percentage of the previous six months' purchases in accordance with the contract terms. The Company estimates the stock rotation returns using the expected value method based on an analysis of historical returns, and the current level of inventory in the distribution channel. The Company records a liability for the stock rotation reserve, with a corresponding reduction to revenue. In addition, the Company recognizes an asset for product returns which represents the right to recover products from the customers related to stock rotations, with a corresponding reduction to cost of revenue.

Contract Balances

Accounts Receivable:

The Company records a receivable when it has an unconditional right to receive consideration after the performance obligations are satisfied. As of September 30, 2020 and December 31, 2019, accounts receivable totaled \$93.5 million and \$52.7 million, respectively. The Company's accounts receivable are short-term, with standard payment terms generally ranging from 30 to 60 days. The Company does not require its customers to provide collateral to support accounts receivable. The Company assesses the collectability by reviewing accounts receivable on an individual basis. To manage credit risk, management performs ongoing credit evaluations of the customers' financial condition, monitors payment performance, and assesses current economic conditions, as well as reasonable and supportable forecasts of future economic conditions, that may affect collectability of the outstanding receivables. For certain high risk customers, the Company requires standby letters of credit or advance payment prior to shipments of goods. The Company did not recognize any write-offs of accounts receivable in any of the periods presented. As of September 30, 2020, the Company did not record any allowance for credit losses, and as of December 31, 2019, the Company did not record any allowance for doubtful accounts.

Contract Liabilities:

For certain customers located in Asia, the Company requires cash payments two weeks before the products are scheduled to be shipped to the customers. The Company records these payments received in advance of performance as customer prepayments within current accrued liabilities. As of September 30, 2020 and December 31, 2019, customer prepayments totaled \$6.4 million and \$3.4 million, respectively. The increase in the customer prepayment balance for the nine months ended September 30, 2020 resulted from an increase in unfulfilled customer orders for which the Company has received payments. For the nine months ended September 30, 2020, the Company recognized \$3.3 million of revenue that was included in the customer prepayment balance as of December 31, 2019.

Practical Expedients

The Company has elected the practical expedient to expense sales commissions as incurred because the amortization period would have been one year or less.

The Company's standard payment terms generally require customers to pay 30 to 60 days after the Company satisfies the performance obligations. For those customers who are required to pay in advance, the Company satisfies the performance obligations generally within a quarter. The Company has elected not to determine whether contracts with customers contain significant financing components.

The Company's unsatisfied performance obligations primarily include products held in consignment arrangements and customer purchase orders for products that the Company has not yet shipped. Because the Company expects to fulfill these performance obligations within one year, the Company has elected not to disclose the amount of these remaining performance obligations.

3. STOCK-BASED COMPENSATION

2014 Equity Incentive Plan

In April 2013, the Board of Directors (the "Board") adopted the 2014 Equity Incentive Plan (the "2014 Plan"), which the Company's stockholders approved in June 2013. In October 2014, the Board approved certain amendments to the 2014 Plan. The amended 2014 Plan became effective on November 13, 2014 and provided for the issuance of up to 5.5 million shares. In April 2020, the Board further amended and restated the amended 2014 Plan (the "Amended and Restated 2014 Plan"), which the Company's stockholders approved in June 2020. The Amended and Restated 2014 Plan became effective on June 11, 2020 and provides for the issuance of up to 10.5 million shares. The Amended and Restated 2014 Plan will expire on June 11, 2030. As of September 30, 2020, 6.0 million shares remained available for future issuance under the Amended and Restated 2014 Plan.

Stock-Based Compensation Expense

The Company recognized stock-based compensation expenses as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Cost of revenue	\$ 707	\$ 641	\$ 1,906	\$ 1,834
Research and development	5,334	4,960	14,666	14,801
Selling, general and administrative	16,934	15,699	46,009	43,384
Total stock-based compensation expense	\$ 22,975	\$ 21,300	\$ 62,581	\$ 60,019
Tax benefit related to stock-based compensation (1)	\$ 512	\$ 595	\$ 1,450	\$ 2,139

(1) Amounts reflect the tax benefit related to stock-based compensation recorded for equity awards that are expected to generate tax deductions when they vest in future periods.

Restricted Stock Units (“RSUs”)

The Company’s RSUs include time-based RSUs, RSUs with performance conditions (“PSUs”), RSUs with market conditions (“MSUs”), and RSUs with both market and performance conditions (“MPSUs”). Vesting of awards with performance conditions or market conditions is subject to the achievement of pre-determined performance goals and the approval of such achievement by the Compensation Committee of the Board (the “Compensation Committee”). All awards include service conditions which require continued employment with the Company.

A summary of RSU activity is presented in the table below (in thousands, except per-share amounts):

	Time-Based RSUs		PSUs and MPSUs		MSUs		Total	
	Number of Shares	Weighted-Average Grant Date Fair Value Per Share	Number of Shares	Weighted-Average Grant Date Fair Value Per Share	Number of Shares	Weighted-Average Grant Date Fair Value Per Share	Number of Shares	Weighted-Average Grant Date Fair Value Per Share
Outstanding at January 1, 2020	180	\$ 115.45	1,987	\$ 74.50	1,886	\$ 37.63	4,053	\$ 59.16
Granted	73	\$ 184.19	622(1)	\$ 172.83	-	\$ -	695	\$ 174.03
Vested	(73)	\$ 108.80	(1,136)	\$ 58.21	(243)	\$ 23.57	(1,452)	\$ 54.98
Forfeited	(7)	\$ 132.36	(10)	\$ 84.95	(8)	\$ 68.48	(25)	\$ 92.50
Outstanding at September 30, 2020	173	\$ 146.72	1,463	\$ 128.96	1,635	\$ 39.57	3,271	\$ 85.19

(1) Amount reflects the number of awards that may ultimately be earned based on management’s probability assessment of the achievement of performance conditions at each reporting period.

The intrinsic value related to vested RSUs was \$45.9 million and \$26.1 million for the three months ended September 30, 2020 and 2019, respectively. The intrinsic value related to vested RSUs was \$267.8 million and \$110.1 million for the nine months ended September 30, 2020 and 2019, respectively. As of September 30, 2020, the total intrinsic value of all outstanding RSUs was \$888.1 million, based on the closing stock price of \$279.61. As of September 30, 2020, unamortized compensation expense related to all outstanding RSUs was \$157.2 million with a weighted-average remaining recognition period of approximately 2.5 years.

Cash proceeds from vested PSUs with a purchase price requirement totaled \$16.5 million and \$14.6 million for the nine months ended September 30, 2020 and 2019, respectively.

Time-Based RSUs:

For the nine months ended September 30, 2020, the Compensation Committee granted 73,000 RSUs with service conditions to non-executive employees and non-employee directors. The RSUs generally vest over four years for employees and one year for directors, subject to continued service with the Company.

2020 PSUs:

In February 2020, the Compensation Committee granted 100,000 PSUs to the executive officers, which represent a target number of shares to be earned based on the Company's average two-year (2020 and 2021) revenue growth rate compared against the analog industry's average two-year revenue growth rate as published by the Semiconductor Industry Association ("2020 Executive PSUs"). The maximum number of shares that an executive officer can earn is 300% of the target number of the 2020 Executive PSUs. 50% of the 2020 Executive PSUs will vest in the first quarter of 2022 if the pre-determined performance goals are met during the performance period. The remaining 2020 Executive PSUs will vest over the following two years on a quarterly basis. Assuming the achievement of the highest level of performance goals, the total stock-based compensation cost for the 2020 Executive PSUs is \$51.1 million.

In February 2020, the Compensation Committee granted 30,000 PSUs to certain non-executive employees, which represent a target number of shares to be earned based on the Company's 2021 revenue goals for certain regions or product line divisions, or based on the Company's average two-year (2020 and 2021) revenue growth rate compared against the analog industry's average two-year revenue growth rate as published by the Semiconductor Industry Association ("2020 Non-Executive PSUs"). The maximum number of shares that an employee can earn is either 200% or 300% of the target number of the 2020 Non-Executive PSUs, depending on the job classification of the employee. 50% of the 2020 Non-Executive PSUs will vest in the first quarter of 2022 if the pre-determined performance goals are met during the performance period. The remaining 2020 Non-Executive PSUs will vest over the following two years on an annual or quarterly basis. Assuming the achievement of the highest level of performance goals, the total stock-based compensation cost for the 2020 Non-Executive PSUs is \$12.8 million.

The 2020 Executive PSUs and the 2020 Non-Executive PSUs contain a purchase price feature, which requires the employees to pay the Company \$30 per share upon vesting of the shares. The \$30 purchase price requirement is deemed satisfied and waived if the average stock price for 20 consecutive trading days at any time during the performance period is \$30 higher than the grant date stock price of \$182.62. This market condition was achieved in the second quarter of 2020. The Company determined the grant date fair value using a Monte Carlo simulation model with the following assumptions: stock price of \$182.62, simulation term of 2.0 years, expected volatility of 33.6%, risk-free interest rate of 1.4%, and expected dividend yield of 1.1%.

2020 MPSUs:

In July 2020, the Compensation Committee granted 43,000 MPSUs to the executive officers and 2,000 MPSUs to certain key employees, which represent a target number of shares that can be earned based on the achievement of both market and performance conditions ("2020 MPSUs"). The maximum number of shares that an employee can earn is 500% of the target number of the 2020 MPSUs. The market conditions consist of five stock price targets ranging from \$260 to \$300 with a performance period through July 20, 2023, and the performance condition consists of one business operating goal related to a revenue target for certain customers with a performance period through December 31, 2021. Upon achievement of the market and performance conditions, 75% of the 2020 MPSUs will vest on July 20, 2023 and 25% of the 2020 MPSUs will vest on July 20, 2024. All vested shares will be subject to a post-vesting sales restriction period of one year. Assuming the achievement of the highest level of performance goals, the total stock-based compensation cost for the 2020 MPSUs is \$42.1 million.

The Company determined the grant date fair value of the 2020 MPSUs using a Monte Carlo simulation model with the following assumptions: stock price of \$248.71, simulation term of 4.0 years, expected volatility of 38.8%, risk-free interest rate of 0.2%, and expected dividend yield of 0.8%. In addition, the grant date fair value included an illiquidity discount of 8.9% to account for the post-vesting sales restrictions.

2004 Employee Stock Purchase Plan ("ESPP")

For the three months ended September 30, 2020 and 2019, 12,000 and 14,000 shares, respectively, were issued under the ESPP. For both the nine months ended September 30, 2020 and 2019, 28,000 shares were issued under the ESPP. As of September 30, 2020, 4.5 million shares were available for future issuance under the ESPP.

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The intrinsic value of the shares issued was \$1.5 million and \$0.4 million for the three months ended September 30, 2020 and 2019, respectively. The intrinsic value of the shares issued was \$2.5 million and \$0.7 million for the nine months ended September 30, 2020 and 2019, respectively. As of September 30, 2020, the unamortized expense was \$0.6 million, which will be recognized through the first quarter of 2021. The Black-Scholes model was used to value the employee stock purchase rights with the following weighted-average assumptions:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Expected term (in years)	0.5	0.5	0.5	0.5
Expected volatility	66.4%	36.7%	48.9%	37.0%
Risk-free interest rate	0.1%	1.9%	0.8%	2.2%
Dividend yield	0.7%	1.1%	0.9%	1.1%

Cash proceeds from the shares issued under the ESPP were \$3.8 million and \$3.3 million for the nine months ended September 30, 2020 and 2019, respectively.

4. BALANCE SHEET COMPONENTS

Inventories

Inventories consist of the following (in thousands):

	September 30, 2020	December 31, 2019
Raw materials	\$ 24,099	\$ 22,872
Work in process	66,816	42,681
Finished goods	57,181	61,947
Total	<u>\$ 148,096</u>	<u>\$ 127,500</u>

Other Current Assets

Other current assets consist of the following (in thousands):

	September 30, 2020	December 31, 2019
RSU tax withholding proceeds receivable	\$ 9,587	\$ 6,106
Prepaid expense	10,030	7,991
Accrued interest receivable	2,603	2,490
Assets for product returns	2,217	1,585
Other	1,533	1,433
Total	<u>\$ 25,970</u>	<u>\$ 19,605</u>

Other Long-Term Assets

Other long-term assets consist of the following (in thousands):

	September 30, 2020	December 31, 2019
Deferred compensation plan assets	\$ 41,395	\$ 38,858
Operating lease right-of-use ("ROU") assets	3,629	2,863
Prepaid expense	2,461	2,687
Other	1,383	1,544
Total	<u>\$ 48,868</u>	<u>\$ 45,952</u>

Other Accrued Liabilities

Other accrued liabilities consist of the following (in thousands):

	September 30, 2020	December 31, 2019
Dividends and dividend equivalents	\$ 26,102	\$ 21,747
Stock rotation and sales returns	8,086	5,530
Accrued purchases of property and equipment	7,056	4,678
Income tax payable	2,618	2,435
Customer prepayments	6,442	3,412
Commissions	2,058	1,425
Operating lease liabilities	1,391	1,254
Warranty	3,899	1,139
Other	4,122	3,170
Total	<u>\$ 61,774</u>	<u>\$ 44,790</u>

Other Long-Term Liabilities

Other long-term liabilities consist of the following (in thousands):

	September 30, 2020	December 31, 2019
Deferred compensation plan liabilities	\$ 43,372	\$ 39,665
Dividend equivalents	7,718	6,265
Operating lease liabilities	1,703	1,103
Other	30	30
Total	<u>\$ 52,823</u>	<u>\$ 47,063</u>

5. LEASES

Lessee

The Company has operating leases primarily for administrative and sales and marketing offices, manufacturing operations and research and development facilities, employee housing units and certain equipment. These leases have remaining lease terms from less than a year to five years. Some of these leases include options to renew the lease term for up to two years or on a month-to-month basis. The Company does not have finance lease arrangements.

As of September 30, 2020 and December 31, 2019, operating lease ROU assets totaled \$3.6 million and \$2.9 million, respectively. As of September 30, 2020 and December 31, 2019, operating lease liabilities totaled \$3.1 million and \$2.4 million, respectively. The following tables summarize certain information related to the leases (in thousands, except percentages):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Lease costs:				
Operating lease costs	\$ 364	\$ 377	\$ 1,093	\$ 1,013
Short-term and other lease costs	87	102	235	394
Total lease costs	<u>\$ 451</u>	<u>\$ 479</u>	<u>\$ 1,328</u>	<u>\$ 1,407</u>
	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Cash paid for amounts included in the measurement of lease liabilities:				
Operating cash flows from operating leases	\$ 394	\$ 299	\$ 1,097	\$ 1,026
ROU assets obtained in exchange for new operating lease liabilities (1)	\$ -	\$ 869	\$ 1,796	\$ 3,450
	September 30,		December 31,	
	2020	2019	2020	2019
Weighted-average remaining lease term (in years)	2.8	2.1		
Weighted-average discount rate	2.9%	3.7%		

(1) For the nine months ended September 30, 2019, the amount includes \$2.2 million for operating leases existing on January 1, 2019.

As of September 30, 2020, the maturities of the lease liabilities were as follows (in thousands):

2020 (remaining three months)	\$	450
2021		1,333
2022		852
2023		279
2024		192
2025		134
Total remaining lease payments		3,240
Less: imputed interest		(146)
Total lease liabilities	\$	<u>3,094</u>
Reported as:		
Current liabilities	\$	1,391
Long-term liabilities	\$	1,703

Lessor

The Company owns certain office buildings and leases a portion of these properties to third parties under arrangements that are classified as operating leases. These leases have remaining lease terms ranging from less than one year to five years. Some of these leases include options to renew the lease term for up to five years.

For both the three months ended September 30, 2020 and 2019, income related to lease payments was \$0.5 million. For both the nine months ended September 30, 2020 and 2019, income related to lease payments was \$1.3 million. As of September 30, 2020, future income related to lease payments was as follows (in thousands):

2020 (remaining three months)	\$	589
2021		2,112
2022		2,070
2023		1,478
2024		552
2025		59
Total	\$	<u>6,860</u>

6. NET INCOME PER SHARE

Basic net income per share is computed by dividing net income by the weighted-average number of common shares outstanding for the period. Diluted net income per share reflects the potential dilution that would occur if outstanding securities or other contracts to issue common stock were exercised or converted into common shares, and calculated using the treasury stock method. Contingently issuable shares, including equity awards with performance conditions or market conditions, are considered outstanding common shares and included in the basic net income per share as of the date that all necessary conditions to earn the awards have been satisfied. Prior to the end of the contingency period, the number of contingently issuable shares included in the diluted net income per share is based on the number of shares, if any, that would be issuable under the terms of the arrangement at the end of the reporting period.

The Company's RSUs contain forfeitable rights to receive cash dividend equivalents, which are accumulated and paid to the employees when the underlying RSUs vest. Dividend equivalents accumulated on the underlying RSUs are forfeited if the employees do not fulfill the requisite service requirement and, as a result, the awards do not vest. Accordingly, these awards are not treated as participating securities in the net income per share calculation.

The following table sets forth the computation of basic and diluted net income per share (in thousands, except per-share amounts):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Numerator:				
Net income	\$ 55,566	\$ 29,528	\$ 121,488	\$ 76,402
Denominator:				
Weighted-average outstanding shares - basic	44,970	43,308	44,737	43,055
Effect of dilutive securities	1,985	2,525	2,082	2,461
Weighted-average outstanding shares - diluted	46,955	45,833	46,819	45,516
Net income per share:				
Basic	\$ 1.24	\$ 0.68	\$ 2.72	\$ 1.77
Diluted	\$ 1.18	\$ 0.64	\$ 2.59	\$ 1.68

Anti-dilutive common stock equivalents were not material in any of the periods presented.

7. SEGMENT, SIGNIFICANT CUSTOMERS AND GEOGRAPHIC INFORMATION

The Company operates in one reportable segment that includes the design, development, marketing and sale of high-performance analog solutions for the computing and storage, automotive, industrial, communications and consumer markets. The Company's chief operating decision maker is its Chief Executive Officer, who reviews financial information presented on a consolidated basis for purposes of allocating resources and evaluating financial performance. The Company derives a majority of its revenue from sales to customers located outside North America, with geographic revenue based on the customers' ship-to locations.

The Company sells its products primarily through third-party distributors and value-added resellers, and directly to OEMs, ODMs and EMS providers. The following table summarizes those customers with sales equal to 10% or more of the Company's total revenue, or with accounts receivable balances equal to 10% or more of the Company's total accounts receivable:

Customer	Revenue				Accounts Receivable	
	Three Months Ended September 30,		Nine Months Ended September 30,		September 30,	December 31,
	2020	2019	2020	2019	2020	2019
Distributor A	22%	24%	23%	23%	21%	24%
Distributor B	11%	*	*	*	14%	11%
Value-added reseller A	*	*	*	*	11%	13%
Direct customer A	14%	*	11%	*	26%	*

* Represents less than 10%.

The Company's agreements with these third-party customers were made in the ordinary course of business and may be terminated with or without cause by these customers with advance notice. Although the Company may experience a short-term disruption in the distribution of its products and a short-term decline in revenue if its agreement with any of the distributors or the value-added reseller was terminated, the Company believes that such termination would not have a material adverse effect on its financial statements because it would be able to engage alternative distributors, resellers and other distribution channels to deliver its products to end customers within a short period following the termination of the agreement with the customer. If the Company's agreement with the direct customer was terminated, or if sales to such customer decrease significantly in future periods, the Company's operating results could be materially and adversely affected.

The following is a summary of revenue by geographic regions (in thousands):

Country or Region	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
China	\$ 157,215	\$ 105,857	\$ 375,708	\$ 276,892
Taiwan	40,782	18,547	79,644	55,912
Europe	14,255	12,047	40,770	38,071
South Korea	20,935	11,990	44,452	31,224
Southeast Asia	11,854	7,904	32,256	23,698
Japan	9,433	8,150	25,079	21,084
United States	4,880	4,225	13,298	14,044
Other	68	93	202	258
Total	\$ 259,422	\$ 168,813	\$ 611,409	\$ 461,183

The following is a summary of revenue by product family (in thousands):

Product Family	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
DC to DC	\$ 247,561	\$ 159,723	\$ 580,549	\$ 432,125
Lighting Control	11,861	9,090	30,860	29,058
Total	\$ 259,422	\$ 168,813	\$ 611,409	\$ 461,183

The following is a summary of long-lived assets by geographic regions (in thousands):

Country	September 30, 2020	December 31, 2019
China	\$ 143,848	\$ 113,888
United States	101,884	94,671
Taiwan	18,122	17,652
Other	6,456	2,104
Total	\$ 270,310	\$ 228,315

8. COMMITMENTS AND CONTINGENCIES

Product Warranties

The Company generally provides one to two-year warranties against defects in materials and workmanship and will either repair the products, provide replacements at no charge to customers or issue a refund. As they are considered assurance-type warranties, the Company does not account for them as separate performance obligations. Warranty reserve requirements are generally based on a specific assessment of the products sold with warranties when a customer asserts a claim for warranty or a product defect.

The changes in warranty reserves are as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Balance at beginning of period	\$ 1,174	\$ 1,748	\$ 1,139	\$ 4,564
Warranty provision for product sales	3,324	92	4,364	671
Settlements made	(254)	(326)	(760)	(2,625)
Unused warranty provision	(345)	(247)	(844)	(1,343)
Balance at end of period	\$ 3,899	\$ 1,267	\$ 3,899	\$ 1,267

Purchase Commitments

The Company has outstanding purchase commitments with its suppliers and other parties that require the future purchases of goods or services, which primarily consist of wafer and other inventory purchases, assembly and other manufacturing services, construction or purchases of property and equipment, and license arrangements. As of September 30, 2020, the Company's outstanding purchase obligations totaled approximately \$215.5 million.

Litigation

The Company is a party to actions and proceedings in the ordinary course of business, including potential litigation initiated by its stockholders, challenges to the enforceability or validity of its intellectual property, claims that the Company's products infringe on the intellectual property rights of others, and employment matters. These proceedings often involve complex questions of fact and law and may require the expenditure of significant funds and the diversion of other resources to prosecute and defend. The Company defends itself vigorously against any such claims. As of September 30, 2020, there were no material pending legal proceedings to which the Company was a party.

9. CASH, CASH EQUIVALENTS, INVESTMENTS AND RESTRICTED CASH

The following is a summary of the Company's cash, cash equivalents and investments (in thousands):

	September 30, 2020	December 31, 2019
Cash, cash equivalents and investments:		
Cash	\$ 138,271	\$ 144,860
Money market funds	41,195	28,100
Corporate debt securities	349,342	260,950
Commercial paper	7,985	1,994
U.S. treasuries and government agency bonds	14,749	19,493
Auction-rate securities backed by student-loan notes	2,916	3,138
Total	<u>\$ 554,458</u>	<u>\$ 458,535</u>

	September 30, 2020	December 31, 2019
Reported as:		
Cash and cash equivalents	\$ 179,466	\$ 172,960
Short-term investments	372,076	282,437
Long-term investments	2,916	3,138
Total	<u>\$ 554,458</u>	<u>\$ 458,535</u>

The following table summarizes the contractual maturities of the short-term and long-term available-for-sale investments as of September 30, 2020 (in thousands):

	Amortized Cost	Fair Value
Due in less than 1 year	\$ 156,119	\$ 156,891
Due in 1 - 5 years	212,464	215,185
Due in greater than 5 years	3,070	2,916
Total	<u>\$ 371,653</u>	<u>\$ 374,992</u>

Realized gains and losses recognized on the sales and maturities of the available-for-sale investments were not material for any of the periods presented.

The following tables summarize the unrealized gain and loss positions related to the available-for sale investments (in thousands):

	September 30, 2020			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Money market funds	\$ 41,195	\$ -	\$ -	\$ 41,195
Corporate debt securities	345,865	3,590	(113)	349,342
Commercial paper	7,970	15	-	7,985
U.S. treasuries and government agency bonds	14,748	3	(2)	14,749
Auction-rate securities backed by student-loan notes	3,070	-	(154)	2,916
Total	<u>\$ 412,848</u>	<u>\$ 3,608</u>	<u>\$ (269)</u>	<u>\$ 416,187</u>

	December 31, 2019			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Money market funds	\$ 28,100	\$ -	\$ -	\$ 28,100
Corporate debt securities	260,645	383	(78)	260,950
Commercial paper	1,994	-	-	1,994
U.S. treasuries and government agency bonds	19,487	7	(1)	19,493
Auction-rate securities backed by student-loan notes	3,320	-	(182)	3,138
Total	\$ 313,546	\$ 390	\$ (261)	\$ 313,675

The following tables present information about the available-for-sale investments that had been in a continuous unrealized loss position for less than 12 months and for greater than 12 months (in thousands):

	September 30, 2020					
	Less than 12 Months		Greater than 12 Months		Total	
	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
Corporate debt securities	\$ 60,921	\$ (113)	\$ -	\$ -	\$ 60,921	\$ (113)
U.S. treasuries and government agency bonds	4,997	(2)	-	-	4,997	(2)
Auction-rate securities backed by student-loan notes	-	-	2,916	(154)	2,916	(154)
Total	\$ 65,918	\$ (115)	\$ 2,916	\$ (154)	\$ 68,834	\$ (269)

	December 31, 2019					
	Less than 12 Months		Greater than 12 Months		Total	
	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
Corporate debt securities	\$ 82,126	\$ (63)	\$ 11,136	\$ (15)	\$ 93,262	\$ (78)
U.S. treasuries and government agency bonds	993	(1)	-	-	993	(1)
Auction-rate securities backed by student-loan notes	-	-	3,138	(182)	3,138	(182)
Total	\$ 83,119	\$ (64)	\$ 14,274	\$ (197)	\$ 97,393	\$ (261)

An impairment exists when the fair value of an investment is less than its amortized cost basis. As of September 30, 2020, the Company did not consider the impairment of its investments to be a result of credit losses. As of December 31, 2019, the Company did not consider the impairment of its investments to be other-than-temporary. The Company typically invests in highly rated securities, with the primary objective of minimizing the potential risk of principal loss. The Company's investment policy generally requires securities to be investment grade and limits the amount of credit exposure to any one issuer. When evaluating a debt security for impairment, management reviews factors such as the Company's intent to sell, or whether it will more likely than not be required to sell, the security before recovery of its amortized cost basis, the extent to which the fair value of the security is less than its cost, the financial condition of the issuer and the credit quality of the investment.

The Company's auction-rate securities are backed by pools of student loans supported by guarantees by the U.S. Department of Education. The underlying maturities of these securities are up to 26 years. The Company has received all scheduled interest payments on a timely basis pursuant to the terms and conditions of the securities. The Company does not intend to sell these securities, and it is more likely than not that the Company will not be required to sell these securities, before recovery of its amortized cost basis. To date, the Company has redeemed \$40.2 million, or 93% of the original portfolio in these auction-rate securities, at par without any realized losses.

Restricted Cash

The following table provides a reconciliation of cash, cash equivalents and restricted cash reported on the Condensed Consolidated Balance Sheets to the amounts reported on the Condensed Consolidated Statements of Cash Flows (in thousands):

	September 30, 2020	December 31, 2019
Cash and cash equivalents	\$ 179,466	\$ 172,960
Restricted cash included in other long-term assets	122	116
Total cash, cash equivalents and restricted cash reported on the Condensed Consolidated Statements of Cash Flows	\$ 179,588	\$ 173,076

As of September 30, 2020 and December 31, 2019, restricted cash included a security deposit that is set aside in a bank account and cannot be withdrawn by the Company under the terms of a lease agreement. The restriction will end upon the expiration of the lease.

10. FAIR VALUE MEASUREMENTS

The following tables summarize the fair value measurement of the financial assets (in thousands):

	September 30, 2020			
	Total	Level 1	Level 2	Level 3
Money market funds	\$ 41,195	\$ 41,195	\$ -	\$ -
Corporate debt securities	349,342	-	349,342	-
Commercial paper	7,985	-	7,985	-
U.S. treasuries and government agency bonds	14,749	-	14,749	-
Auction-rate securities backed by student-loan notes	2,916	-	-	2,916
Mutual funds and money market funds under deferred compensation plan	23,562	23,562	-	-
Total	\$ 439,749	\$ 64,757	\$ 372,076	\$ 2,916

	December 31, 2019			
	Total	Level 1	Level 2	Level 3
Money market funds	\$ 28,100	\$ 28,100	\$ -	\$ -
Corporate debt securities	260,950	-	260,950	-
Commercial paper	1,994	-	1,994	-
U.S. treasuries and government agency bonds	19,493	-	19,493	-
Auction-rate securities backed by student-loan notes	3,138	-	-	3,138
Mutual funds and money market funds under deferred compensation plan	21,975	21,975	-	-
Total	\$ 335,650	\$ 50,075	\$ 282,437	\$ 3,138

- Level 1—includes instruments with quoted prices in active markets for identical assets.
- Level 2—includes instruments for which the valuations are based upon quoted market prices in active markets involving similar assets or inputs other than quoted prices that are observable for the assets. The market inputs used to value these instruments generally consist of market yields, recently executed transactions, broker/dealer quotes or alternative pricing sources with reasonable levels of price transparency. Pricing sources may include industry standard data providers, security master files from large financial institutions, and other third-party sources used to determine a daily market value.
- Level 3—includes instruments for which the valuations are based on inputs that are unobservable and significant to the overall fair value measurement.

The Company's level 3 assets consist of government-backed student loan auction-rate securities. The following table provides a rollforward of the fair value of the auction-rate securities (in thousands):

Balance at January 1, 2020	\$ 3,138
Change in unrealized gain included in other comprehensive income	28
Sale and settlement at par	(250)
Balance at September 30, 2020	\$ 2,916

The Company determined the fair value of the auction-rate securities using a discounted cash flow model with the following assumptions:

	September 30, 2020 (1)				December 31, 2019			
	2	-	3	(2.5)	2	-	3	
Time-to-liquidity (in years)	2	-	3	(2.5)	2	-	3	
Discount rate	3.3%	-	7.6%	(5.4%)	4.0%	-	8.3%	

(1) The parenthetical value represents the weighted average, which was calculated based on the relative fair value of the securities.

The fair value measurement involves the analysis of valuation techniques and evaluation of unobservable inputs commonly used by market participants to price similar instruments. Outputs from the valuation process are assessed against various market sources when they are available, including marketplace quotes, recent trades of similar illiquid securities and independent pricing services. The valuation of the auction-rate securities is subject to significant management judgment regarding projected future cash flows, which will depend on many factors, including the quality of the underlying collateral, estimated time to liquidity including potential to be called or restructured, underlying final maturity, and market conditions, among others. Changes in any of the unobservable inputs used in the fair value measurement of auction-rate securities in isolation would result in a lower or higher fair value measurement. For example, an increase in the time-to-liquidity assumption or estimated discount rate would result in a lower fair value measurement.

11. DEFERRED COMPENSATION PLAN

The following table summarizes the deferred compensation plan balances on the Condensed Consolidated Balance Sheets (in thousands):

	September 30, 2020	December 31, 2019
Deferred compensation plan asset components:		
Cash surrender value of corporate-owned life insurance policies	\$ 17,833	\$ 16,883
Fair value of mutual funds and money market funds	23,562	21,975
Total	<u>\$ 41,395</u>	<u>\$ 38,858</u>
Deferred compensation plan assets reported in:		
Other long-term assets	<u>\$ 41,395</u>	<u>\$ 38,858</u>
Deferred compensation plan liabilities reported in:		
Accrued compensation and related benefits (short-term)	\$ 155	\$ 425
Other long-term liabilities	43,372	39,665
Total	<u>\$ 43,527</u>	<u>\$ 40,090</u>

12. OTHER INCOME, NET

The components of other income, net, are as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Interest income	\$ 2,311	\$ 1,850	\$ 7,073	\$ 5,207
Amortization of premium on available-for-sale securities	(863)	(168)	(1,984)	(384)
Gain on deferred compensation plan investments	1,598	74	1,420	2,630
Foreign currency exchange gain (loss)	(759)	175	(889)	47
Other	207	326	360	327
Total	<u>\$ 2,494</u>	<u>\$ 2,257</u>	<u>\$ 5,980</u>	<u>\$ 7,827</u>

13. INCOME TAXES

The income tax provision or benefit for interim periods is generally determined using an estimate of the Company's annual effective tax rate and adjusted for discrete items, if any, in the relevant period. Each quarter the estimate of the annual effective tax rate is updated, and if the Company's estimated tax rate changes, a cumulative adjustment is made.

The income tax expense for the three months ended September 30, 2020 was \$6.9 million, or 11.1% of pre-tax income. The income tax expense for the nine months ended September 30, 2020 was \$3.4 million, or 2.7% of pre-tax income. The effective tax rates differed from the federal statutory rate primarily due to income from the Company's subsidiaries in Bermuda and China being taxed at lower statutory tax rates, and excess tax benefits from stock-based compensation. The decrease in the effective tax rates relative to the federal statutory rate was partially offset by the inclusion of the global intangible low-taxed income ("GILTI") tax.

The income tax expense for the three months ended September 30, 2019 was \$2.8 million, or 8.6% of pre-tax income. The income tax expense for the nine months ended September 30, 2019 was \$3.3 million, or 4.1% of pre-tax income. The effective tax rates differed from the federal statutory rate primarily due to foreign income from the Company's subsidiaries in Bermuda and China being taxed at lower statutory tax rates, and excess tax benefits from stock-based compensation. The decrease in the effective tax rates relative to the federal statutory rate was partially offset by the inclusion of the GILTI tax.

The Company's uncertain tax positions relate to the allocation of income and deductions among its global entities and to the determination of the research and development tax credit. Various events, some of which cannot be predicted, such as clarification of tax law by administrative or judicial means, may occur and would require the Company to increase or decrease its reserves and effective income tax rate over the next twelve months. However, it is not possible to determine either the magnitude or the range of increases or decreases at this time.

In July 2015, the U.S. Tax Court issued an opinion in *Altera Corp. v. Commissioner*, invalidating the Treasury regulations that require participants in qualified intercompany cost-sharing arrangements to share stock-based compensation costs. A final decision was issued by the Tax Court in December 2015, and the Internal Revenue Service (“IRS”) appealed the decision in June 2016. In June 2019, the Ninth Circuit Court of Appeals upheld the cost-sharing regulations. In July 2019, Altera filed a petition for rehearing en banc in the Ninth Circuit Court of Appeals. In November 2019, the Ninth Circuit Court of Appeals declined to rehear the case. In February 2020, Altera filed a petition with the U.S. Supreme Court to review the case. In June 2020, the Supreme Court denied Altera’s petition for writ of certiorari, declining to review the decision of the Ninth Circuit Court of Appeals. Based on the Supreme Court’s denial to hear the Altera case, until and unless there is further litigation on this matter in the future, the Company considers the matter resolved and there was no impact on the Company’s current treatment of stock-based compensation costs.

14. ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS)

The following table summarizes the changes in accumulated other comprehensive income (loss) (in thousands):

	Unrealized Gains (Losses) on Available-for-Sale Securities	Foreign Currency Translation Adjustments	Total
Balance as of January 1, 2020	\$ 135	\$ (5,611)	\$ (5,476)
Other comprehensive loss before reclassifications	(1,680)	(2,882)	(4,562)
Amounts reclassified from accumulated other comprehensive loss	(28)	-	(28)
Tax effect	55	-	55
Net current period other comprehensive loss	(1,653)	(2,882)	(4,535)
Balance as of March 31, 2020	(1,518)	(8,493)	(10,011)
Other comprehensive income before reclassifications	5,386	1,018	6,404
Amounts reclassified from accumulated other comprehensive loss	(71)	-	(71)
Tax effect	(406)	-	(406)
Net current period other comprehensive income	4,909	1,018	5,927
Balance as of June 30, 2020	3,391	(7,475)	(4,084)
Other comprehensive income (loss) before reclassifications	(389)	6,936	6,547
Amounts reclassified from accumulated other comprehensive income (loss)	(9)	-	(9)
Tax effect	30	-	30
Net current period other comprehensive income (loss)	(368)	6,936	6,568
Balance as of September 30, 2020	\$ 3,023	\$ (539)	\$ 2,484

The amounts reclassified from accumulated other comprehensive income (loss) were recorded in other income, net, on the Condensed Consolidated Statements of Operations.

15. DIVIDENDS AND DIVIDEND EQUIVALENTS

Cash Dividend Program

The Company has a dividend program approved by the Board, pursuant to which the Company intends to pay quarterly cash dividends on its common stock. Based on the Company’s historical practice, stockholders of record as of the last business day of the quarter are entitled to receive the quarterly cash dividends when and if declared by the Board, which are payable to the stockholders in the following month. The Board declared the following cash dividends (in thousands, except per-share amounts):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2020	2019	2020	2019
Dividend declared per share	\$ 0.50	\$ 0.40	\$ 1.50	\$ 1.20
Total amount	\$ 22,508	\$ 17,341	\$ 67,239	\$ 51,782

As of September 30, 2020 and December 31, 2019, accrued dividends totaled \$22.5 million and \$17.4 million, respectively.

The declaration of any future cash dividends is at the discretion of the Board and will depend on, among other things, the Company’s financial condition, results of operations, capital requirements, business conditions, and other factors that the Board may deem relevant, as well as a determination that cash dividends are in the best interests of the stockholders.

The Company anticipates that cash used for future dividend payments will come from its domestic cash, cash generated from ongoing U.S. operations, and cash repatriated from its Bermuda subsidiary. The Company also anticipates that earnings from other foreign subsidiaries will continue to be indefinitely reinvested.

Cash Dividend Equivalent Rights

The Company's RSUs contain rights to receive cash dividend equivalents, which entitle employees who hold RSUs to the same dividend value per share as holders of common stock. The dividend equivalents are accumulated and paid to the employees when the underlying RSUs vest. Dividend equivalents accumulated on the underlying RSUs are forfeited if the employees do not fulfill the requisite service requirement and, as a result, the awards do not vest. As of September 30, 2020 and December 31, 2019, accrued dividend equivalents totaled \$11.3 million and \$10.6 million, respectively.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, that have been made pursuant to and in reliance on the provisions of the Private Securities Litigation Reform Act of 1995. These statements include, among others, statements concerning:

- the above-average industry growth of product and market areas that we have targeted,
- our plan to increase our revenue through the introduction of new products within our existing product families as well as in new product categories and families,
- our belief that we may incur significant legal expenses that vary with the level of activity in each of our current or future legal proceedings,
- the effect that liquidity of our investments has on our capital resources,
- the continuing application of our products in the computing and storage, automotive, industrial, communications and consumer markets,
- estimates of our future liquidity requirements,
- the cyclical nature of the semiconductor industry,
- the effects of the COVID-19 pandemic on the global economy, the semiconductor industry and our business;
- protection of our proprietary technology,
- business outlook for the remainder of 2020 and beyond,
- the factors that we believe will impact our business, operations and financial condition, as well as our ability to achieve revenue growth,
- the percentage of our total revenue from various end markets,
- our ability to identify, acquire and integrate companies, businesses and products, and achieve the anticipated benefits from such acquisitions and integrations,
- the impact of various tax laws and regulations on our income tax provision, financial position and cash flows,
- our plan to repatriate cash from our subsidiary in Bermuda,
- our intention and ability to pay future cash dividends and dividend equivalents, and
- the factors that differentiate us from our competitors.

In some cases, words such as “would,” “could,” “may,” “should,” “predict,” “potential,” “targets,” “continue,” “anticipate,” “expect,” “intend,” “plan,” “believe,” “seek,” “estimate,” “project,” “forecast,” “will,” the negative of these terms or other variations of such terms and similar expressions relating to the future identify forward-looking statements. All forward-looking statements are based on our current outlook, expectations, estimates, projections, beliefs and plans or objectives about our business and our industry, including our expectations regarding the potential impacts of the COVID-19 pandemic on our business. These statements are not guarantees of future performance and are subject to risks and uncertainties. Actual events or results could differ materially and adversely from those expressed in any such forward-looking statements. Risks and uncertainties that could cause actual results to differ materially include those set forth throughout this Quarterly Report on Form 10-Q and, in particular, in the section entitled “Item 1A. Risk Factors.” Except as required by law, we disclaim any duty to, and undertake no obligation to, update any forward-looking statements, whether as a result of new information relating to existing conditions, future events or otherwise or to release publicly the results of any future revisions we may make to forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. Readers are cautioned not to place undue reliance on such statements, which speak only as of the date of this Quarterly Report on Form 10-Q. Readers should carefully review future reports and documents that we file from time to time with the SEC, such as our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and any Current Reports on Form 8-K.

Overview

We are a leading semiconductor company that designs, develops and markets high-performance power solutions. Incorporated in 1997, our core strengths include deep system-level and applications knowledge, strong analog design expertise and an innovative proprietary process technology. These combined strengths enable us to deliver highly integrated monolithic products that offer energy-efficient, cost-effective, easy-to-use solutions for systems found in computing and storage, automotive, industrial, communications and consumer applications. Our mission is to reduce total energy consumption in our customers' systems with green, practical and compact solutions. We believe that we differentiate ourselves by offering solutions that are more highly integrated, smaller in size, more energy-efficient, more accurate with respect to performance specifications and, consequently, more cost-effective than many competing solutions. We plan to continue to introduce new products within our existing product families, as well as in new innovative product categories.

We operate in the cyclical semiconductor industry where there is seasonal demand for certain products. We are not immune from current and future industry downturns, but we have targeted product and market areas that we believe have the ability to offer above average industry performance over the long term.

We work with third parties to manufacture and assemble our ICs. This has enabled us to limit our capital expenditures and fixed costs, while focusing our engineering and design resources on our core strengths.

Following the introduction of a product, our sales cycle generally takes a number of quarters after we receive an initial customer order for a new product to ramp up. Typical lead times for orders are generally 8 to 16 weeks. These factors, combined with the fact that orders in the semiconductor industry can typically be cancelled or rescheduled without significant penalty to the customer, make the forecasting of our orders and revenue difficult.

We derive most of our revenue from sales through distribution arrangements and direct sales to customers in Asia, where our products are incorporated into end-user products. Our revenue from direct or indirect sales to customers in Asia was 93% and 90% for the three months ended September 30, 2020 and 2019, respectively, and 91% and 89% for the nine months ended September 30, 2020 and 2019, respectively. We derive a majority of our revenue from the sales of our DC to DC converter products which serve the computing and storage, automotive, industrial, communications and consumer markets. We believe our ability to achieve revenue growth will depend, in part, on our ability to develop new products, enter new market segments, gain market share, manage litigation risk, diversify our customer base and continue to secure manufacturing capacity.

Impact of COVID-19 on Our Business

In March 2020, the World Health Organization declared the COVID-19 outbreak a pandemic, which continues to spread rapidly in the U.S. and globally. Governmental authorities have implemented numerous containment measures, including travel-related restrictions, quarantines, shelter-in-place orders, and business restrictions and shutdowns. These measures have resulted in a global slowdown of economic activity and a decrease in demand for a broad variety of goods and services, while also disrupting business operations for an unknown period of time until the disease is contained. Although certain restrictions have recently begun to ease in the U.S. and globally, economic conditions remained uncertain as of the end of the third quarter of 2020.

Our primary focus is to continue to execute our business plan and mitigate the effect of the pandemic on our financial position and operations, while actively taking all necessary precautions to ensure the safety of our employees, our suppliers and our customers. The pandemic did not materially and adversely impact our overall operating results or business operations during the third quarter of 2020. Some of the key developments and initiatives we implemented since March 2020 include, but are not limited to, the following:

- *Employees:*

Our top priority during the pandemic is protecting the health and safety of our employees. As governments continue to institute new restrictions on commercial operations, we continue to monitor new developments and work to ensure our compliance while also maintaining business continuity for essential operations. In the U.S. and certain international locations, we continue to implement work-from-home arrangements in accordance with local regulations. To date, we believe these arrangements have contributed to the health and safety of our employees and allowed us to successfully maintain business operations and customer relations.

- **Facilities and Supply Chain:**

Our manufacturing facilities in China and South Korea are fully operational and have experienced minimal disruptions, as we continue to follow the proper guidance issued by governmental authorities. In addition, we have not experienced any major supply chain issues.

- **Customers:**

We did not experience an adverse impact on overall customer demand as a result of the pandemic. Our revenue increased in all of our end markets during the third quarter compared to the second quarter. Furthermore, there were no significant delays in payments by our customers.

Our automotive revenue returned to more normal ordering levels in the third quarter after a number of automotive OEMs temporarily shut down production during the second quarter in response to the pandemic. We continue to receive significant interest from customers in our technology and design capabilities in applications including infotainment, smart lighting, advanced driver-assistance systems and autonomous driving. We believe we are well-positioned to accelerate growth as the automotive market conditions continue to improve.

- **Liquidity and Capital Resources:**

Our cash and investment balances remain strong and we continue to generate positive operating cash flows. We believe we have sufficient liquidity to satisfy our cash needs as we manage through the current uncertain environment. However, we will continue to monitor, evaluate and take action, as necessary, to preserve adequate liquidity to support our business for the remainder of 2020 and beyond.

We are actively working with our stakeholders, including customers, suppliers and employees, to address the impact of the pandemic. We will continue to monitor the situation, to assess further possible implications to our business, supply chain and customers, and to take actions in an effort to mitigate adverse consequences. However, we cannot reasonably estimate the duration and severity of the pandemic or its ultimate impact on the global economy, the semiconductor industry and our business. A prolonged economic slowdown as a result of the pandemic could materially and adversely impact our business, results of operations and financial condition for the remainder of 2020 and beyond.

Critical Accounting Policies and Estimates

In preparing our condensed consolidated financial statements in accordance with GAAP, we are required to make estimates, assumptions and judgments that affect the amounts reported in our financial statements and the accompanying disclosures. Estimates and judgments used in the preparation of our condensed consolidated financial statements are, by their nature, uncertain and unpredictable, and depend upon, among other things, many factors outside of our control, such as demand for our products, economic conditions and other current and future events, such as the impact of the COVID-19 pandemic. As of the date of issuance of these condensed consolidated financial statements, we are not aware of any specific event or circumstance that would require our management to update the significant estimates and assumptions used in the preparation of the condensed consolidated financial statements, as compared to those disclosed in the Annual Report on Form 10-K for the year ended December 31, 2019. As new events continue to evolve and additional information becomes available, any changes to these estimates and assumptions will be recognized in the condensed consolidated financial statements as soon as they become known. Actual results could differ from these estimates and assumptions, and any such differences may be material to our condensed consolidated financial statements.

Results of Operations

The table below sets forth the data on the Condensed Consolidated Statements of Operations as a percentage of revenue:

	Three Months Ended September 30,				Nine Months Ended September 30,				
	2020		2019		2020		2019		
	(in thousands, except percentages)								
Revenue	\$	259,422	100.0%	\$	168,813	100.0%	\$	461,183	100.0%
Cost of revenue		116,382	44.9		75,655	44.8		206,794	44.8
Gross profit		143,040	55.1		93,158	55.2		254,389	55.2
Operating expenses:									
Research and development		37,717	14.5		27,742	16.4		80,746	17.5
Selling, general and administrative		43,503	16.8		34,692	20.6		100,302	21.7
Litigation expense		1,841	0.7		692	0.4		1,473	0.4
Total operating expenses		83,061	32.0		63,126	37.4		182,521	39.6
Income from operations		59,979	23.1		30,032	17.8		71,868	15.6
Other income, net		2,494	1.0		2,257	1.3		7,827	1.7
Income before income taxes		62,473	24.1		32,289	19.1		79,695	17.3
Income tax expense		6,907	2.7		2,761	1.6		3,293	0.7
Net income	\$	55,566	21.4%	\$	29,528	17.5%	\$	76,402	16.6%

Revenue

The following table summarizes our revenue by end market:

End Market	Three Months Ended September 30,					Nine Months Ended September 30,				
	2020	% of Revenue	2019	% of Revenue	Change	2020	% of Revenue	2019	% of Revenue	Change
(in thousands, except percentages)										
Computing and storage	\$ 75,301	29.0%	\$ 52,793	31.3%	42.6%	\$ 191,345	31.3%	\$ 133,571	29.0%	43.3%
Automotive	28,512	11.0	24,432	14.5	16.7%	69,603	11.4	66,174	14.3	5.2%
Industrial	30,658	11.8	28,862	17.1	6.2%	82,487	13.5	72,640	15.8	13.6%
Communications	54,705	21.1	18,778	11.1	191.3%	112,670	18.4	62,928	13.6	79.0%
Consumer	70,246	27.1	43,948	26.0	59.8%	155,304	25.4	125,870	27.3	23.4%
Total	\$ 259,422	100.0%	\$ 168,813	100.0%	53.7%	\$ 611,409	100.0%	\$ 461,183	100.0%	32.6%

Revenue for the three months ended September 30, 2020 was \$259.4 million, an increase of \$90.6 million, or 53.7%, from \$168.8 million for the three months ended September 30, 2019. This increase was driven by higher sales in all of our end markets. Overall unit shipments increased 14% and average sales prices increased by approximately 31% compared to the same period in 2019. The increase in average sales prices was primarily driven by favorable changes in product mix with more sales coming from products with higher unit prices.

Overall, our revenue during the third quarter of 2020 increased beyond our expectations for two key reasons. First, we were able to fulfill our customers' demand that had been delinquent due to past capacity constraints. Second, certain China-based customers requested shipments previously scheduled for future dates be fulfilled in the third quarter of 2020. We believe these requests were related to recent trade and regulatory policy changes or developments that occurred during the quarter. While these two factors contributed to our revenue increase in the third quarter of 2020, we believe they were non-recurring in nature.

For the three months ended September 30, 2020, revenue from the communications market increased \$35.9 million, or 191.3%, from the same period in 2019. This increase was primarily driven by increased infrastructure sales as certain China-based customers requested shipments previously scheduled for future dates be fulfilled in the third quarter of 2020. Revenue from the consumer market increased \$26.3 million, or 59.8%, from the same period in 2019. This increase was primarily driven by increased sales for gaming and mobile products. Revenue from the computing and storage market increased \$22.5 million, or 42.6%, from the same period in 2019. This increase was primarily driven by strength in cloud computing and storage. Revenue from the automotive market increased \$4.1 million, or 16.7%, from the same period in 2019. This increase was primarily driven by higher sales of products for infotainment applications. Revenue from the industrial market increased \$1.8 million, or 6.2%, from the same period in 2019. This increase was primarily driven by higher sales in power source products.

Revenue for the nine months ended September 30, 2020 was \$611.4 million, an increase of \$150.2 million, or 32.6%, from \$461.2 million for the nine months ended September 30, 2019. This increase was driven by higher sales in all of our end markets. Overall unit shipments increased by 7% and average sales prices increased by approximately 24% compared to the same period in 2019. The increase in average sales prices was primarily driven by favorable changes in product mix with more sales coming from products with higher unit prices.

For the nine months ended September 30, 2020, revenue from the communications market increased \$49.7 million, or 79.0%, from the same period in 2019. This increase was primarily driven by increased infrastructure sales as certain China-based customers requested shipments previously scheduled for future dates be fulfilled in the third quarter of 2020. Revenue from the computing and storage market increased \$57.8 million, or 43.3%, from the same period in 2019. This increase was primarily driven by strength in cloud computing and storage. Revenue from the consumer market increased \$29.4 million, or 23.4%, from the same period in 2019. This increase was primarily driven by increased sales for gaming, home appliance and mobile products. Revenue from the industrial market increased \$9.8 million, or 13.6%, from the same period in 2019. This increase was primarily driven by higher sales in power source and meter products. Revenue from the automotive market increased \$3.4 million, or 5.2%, from the same period in 2019. This increase was primarily driven by higher sales of products for infotainment applications, despite temporary production shutdowns by certain OEMs during the second quarter due to the COVID-19 pandemic.

Cost of Revenue and Gross Margin

Cost of revenue primarily consists of costs incurred to manufacture, assemble and test our products, as well as warranty costs, inventory-related and other overhead costs, and stock-based compensation expenses.

	Three Months Ended September 30,				Nine Months Ended September 30,			
	2020	2019		Change	2020	2019		Change
				(in thousands, except percentages)				
Cost of revenue	\$ 116,382	\$ 75,655		53.8%	\$ 274,329	\$ 206,794		32.7%
As a percentage of revenue	44.9%	44.8%			44.9%	44.8%		
Gross profit	\$ 143,040	\$ 93,158		53.5%	\$ 337,080	\$ 254,389		32.5%
Gross margin	55.1%	55.2%			55.1%	55.2%		

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Cost of revenue was \$116.4 million, or 44.9% of revenue, for the three months ended September 30, 2020, and \$75.7 million, or 44.8% of revenue, for the three months ended September 30, 2019. The \$40.7 million increase in cost of revenue was primarily due to a 14% increase in overall unit shipments and a 26% increase in the average direct cost of units shipped. The increase in cost of revenue was also driven by an increase in manufacturing overhead costs and warranty expenses.

Gross margin was 55.1% for the three months ended September 30, 2020, compared with 55.2% for the three months ended September 30, 2019. The decrease in gross margin was primarily due to higher manufacturing overhead costs and warranty expenses as a percentage of revenue, which was partially offset by a more favorable product mix.

Cost of revenue was \$274.3 million, or 44.9% of revenue, for the nine months ended September 30, 2020, and \$206.8 million, or 44.8% of revenue, for the nine months ended September 30, 2019. The \$67.5 million increase in cost of revenue was primarily due to a 7% increase in overall unit shipments and an 18% increase in the average direct cost of units shipped. The increase in cost of revenue was also driven by an increase in manufacturing overhead costs, inventory write-downs and warranty expenses.

Gross margin was 55.1% for the nine months ended September 30, 2020, compared with 55.2% for the nine months ended September 30, 2019. The decrease in gross margin was primarily due to higher manufacturing overhead costs, inventory write-downs and warranty expenses as a percentage of revenue, which was partially offset by a more favorable product mix.

Research and Development ("R&D")

R&D expenses primarily consist of salary and benefit expenses, bonuses, stock-based compensation and deferred compensation for design and product engineers, expenses related to new product development and supplies, and facility costs.

	Three Months Ended September 30,			Nine Months Ended September 30,		
	2020	2019	Change	2020	2019	Change
	(in thousands, except percentages)					
R&D expenses	\$ 37,717	\$ 27,742	36.0%	\$ 95,346	\$ 80,746	18.1%
As a percentage of revenue	14.5%	16.4%		15.6%	17.5%	

R&D expenses were \$37.7 million, or 14.5% of revenue, for the three months ended September 30, 2020, and \$27.7 million, or 16.4% of revenue, for the three months ended September 30, 2019. The \$10.0 million increase in R&D expenses was primarily due to an increase of \$5.9 million in compensation expenses, which include salary, benefits and bonuses, an increase of \$1.7 million in new product development expenses, and an increase of \$0.6 million in expenses related to changes in the value of the deferred compensation plan liabilities. Our R&D headcount was 920 employees as of September 30, 2020, compared with 819 employees as of September 30, 2019.

R&D expenses were \$95.3 million, or 15.6% of revenue, for the nine months ended September 30, 2020, and \$80.7 million, or 17.5% of revenue, for the nine months ended September 30, 2019. The \$14.6 million increase in R&D expenses was primarily due to an increase of \$11.3 million in compensation expenses, which include salary, benefits and bonuses, and an increase of \$1.4 million in new product development expenses.

Selling, General and Administrative ("SG&A")

SG&A expenses primarily include salary and benefit expenses, bonuses, stock-based compensation and deferred compensation for sales, marketing and administrative personnel, sales commissions, travel expenses, facilities costs, and professional service fees.

	Three Months Ended September 30,			Nine Months Ended September 30,		
	2020	2019	Change	2020	2019	Change
	(in thousands, except percentages)					
SG&A expenses	\$ 43,503	\$ 34,692	25.4%	\$ 116,550	\$ 100,302	16.2%
As a percentage of revenue	16.8%	20.6%		19.1%	21.7%	

SG&A expenses were \$43.5 million, or 16.8% of revenue, for the three months ended September 30, 2020, and \$34.7 million, or 20.6% of revenue, for the three months ended September 30, 2019. The \$8.8 million increase in SG&A expenses was primarily due to an increase of \$3.3 million in compensation expenses, which include salary, benefits and bonuses, an increase of \$2.6 million in commission expenses driven by higher revenue, an increase of \$1.2 million in stock-based compensation expenses, which were mainly associated with performance-based equity awards, and an increase of \$1.1 million in expenses related to changes in the value of the deferred compensation plan liabilities. Our SG&A headcount was 552 employees as of September 30, 2020, compared with 488 employees as of September 30, 2019.

SG&A expenses were \$116.6 million, or 19.1% of revenue, for the nine months ended September 30, 2020, and \$100.3 million, or 21.7% of revenue, for the nine months ended September 30, 2019. The \$16.3 million increase in SG&A expenses was primarily due to an increase of \$9.3 million in compensation expenses, which include salary, benefits and bonuses, an increase of \$3.6 million in commission expenses driven by higher revenue, and an increase of \$2.6 million in stock-based compensation expenses, which were mainly associated with performance-based equity awards.

Litigation Expense

Litigation expense was \$1.8 million for the three months ended September 30, 2020, compared with \$0.7 million for the three months ended September 30, 2019. The increase was primarily due to increased litigation activity related to ongoing patent infringement and other matters.

Litigation expense was \$6.3 million for the nine months ended September 30, 2020, compared with \$1.5 million for the nine months ended September 30, 2019. The increase was primarily due to increased litigation activity related to ongoing patent infringement and other matters.

Other Income, Net

Other income, net, was \$2.5 million for the three months ended September 30, 2020, compared with other income, net, of \$2.3 million for the three months ended September 30, 2019. The increase was primarily due to an increase of \$1.5 million in income related to changes in the value of the deferred compensation plan investments, and an increase of \$0.5 million in interest income primarily as a result of higher investment balances. These favorable changes were partially offset by an increase of \$0.9 million in foreign currency exchange losses and \$0.7 million in amortization of the premium on available-for-sale securities.

Other income, net, was \$6.0 million for the nine months ended September 30, 2020, compared with other income, net, of \$7.8 million for the nine months ended September 30, 2019. The decrease was primarily due to an increase of \$1.6 million in amortization of the premium on available-for-sale securities, a decrease of \$1.2 million in income related to changes in the value of the deferred compensation plan investments, and an increase of \$0.9 million in foreign currency exchange losses. These unfavorable changes were partially offset by an increase of \$1.9 million in interest income primarily as a result of higher investment balances.

Income Tax Expense

The income tax provision or benefit for interim periods is generally determined using an estimate of our annual effective tax rate and adjusted for discrete items, if any, in the relevant period. Each quarter the estimate of the annual effective tax rate is updated, and if our estimated tax rate changes, a cumulative adjustment is made.

The income tax expense for the three months ended September 30, 2020 was \$6.9 million, or 11.1% of pre-tax income. The income tax expense for the nine months ended September 30, 2020 was \$3.4 million, or 2.7% of pre-tax income. The effective tax rates differed from the federal statutory rate primarily due to income from our subsidiaries in Bermuda and China being taxed at lower statutory tax rates, and excess tax benefits from stock-based compensation. The decrease in the effective tax rates relative to the federal statutory rate was partially offset by the inclusion of the GILTI tax.

The income tax expense for the three months ended September 30, 2019 was \$2.8 million, or 8.6% of pre-tax income. The income tax expense for the nine months ended September 30, 2019 was \$3.3 million, or 4.1% of pre-tax income. The effective tax rates differed from the federal statutory rate primarily due to foreign income from our subsidiaries in Bermuda and China being taxed at lower statutory tax rates, and excess tax benefits from stock-based compensation. The decrease in the effective tax rates relative to the federal statutory rate was partially offset by the inclusion of the GILTI tax.

Liquidity and Capital Resources

	September 30, 2020	December 31, 2019
	(in thousands, except percentages)	
Cash and cash equivalents	\$ 179,466	\$ 172,960
Short-term investments	372,076	282,437
Total cash, cash equivalents and short-term investments	\$ 551,542	\$ 455,397
Percentage of total assets	47.5%	47.6%
Total current assets	\$ 819,143	\$ 655,206
Total current liabilities	(158,278)	(98,225)
Working capital	\$ 660,865	\$ 556,981

As of September 30, 2020, we had cash and cash equivalents of \$179.5 million and short-term investments of \$372.1 million, compared with cash and cash equivalents of \$173.0 million and short-term investments of \$282.4 million as of December 31, 2019. As of September 30, 2020, \$94.7 million of cash and cash equivalents and \$246.7 million of short-term investments were held by our international subsidiaries. We may repatriate cash from our Bermuda subsidiary to fund our expenditures in future periods. We anticipate that earnings from other foreign subsidiaries will continue to be indefinitely reinvested.

The significant components of our working capital are cash and cash equivalents, short-term investments, accounts receivable, inventories and other current assets, reduced by accounts payable, accrued compensation and related benefits, and other accrued liabilities. As of September 30, 2020, we had working capital of \$660.9 million, compared with working capital of \$557.0 million as of December 31, 2019. The \$103.9 million increase in working capital was due to a \$163.9 million increase in current assets, which was partially offset by a \$60.0 million increase in current liabilities. The increase in current assets was primarily due to an increase in short-term investments, accounts receivable and inventories. The increase in current liabilities was due to an increase in accounts payable, accrued compensation and related benefits and other accrued liabilities.

Summary of Cash Flows

The following table summarizes our cash flow activities:

	Nine Months Ended September 30, 2020	2019
	(in thousands)	
Net cash provided by operating activities	\$ 188,155	\$ 155,317
Net cash used in investing activities	(133,437)	(88,109)
Net cash used in financing activities	(49,638)	(31,007)
Effect of change in exchange rates	1,432	(2,516)
Net increase in cash, cash equivalents and restricted cash	\$ 6,512	\$ 33,685

For the nine months ended September 30, 2020, net cash provided by operating activities was \$188.2 million, primarily due to our net income adjusted for certain non-cash items, including depreciation and amortization and stock-based compensation, and a net decrease of \$13.7 million from the changes in our operating assets and liabilities. The increase in accounts receivable was driven by increased sales during the three months ended September 30, 2020. The increase in inventories was primarily driven by an increase in wafer and die inventories to meet current demand and future growth. The increase in accounts payable was primarily driven by increased inventory purchases to meet future demand. For the nine months ended September 30, 2019, net cash provided by operating activities was \$155.3 million, primarily due to our net income adjusted for certain non-cash items, including depreciation and amortization and stock-based compensation, and a net increase of \$10.6 million from the changes in our operating assets and liabilities. The decrease in income tax liabilities was primarily due to income tax payments made for the year, including the annual deemed repatriation transition tax. The increase in other accrued liabilities was primarily driven by an increase in employee contributions to the deferred compensation plan and an increase in operating lease liabilities.

For the nine months ended September 30, 2020, net cash used in investing activities was \$133.4 million, primarily due to purchases of property and equipment of \$44.2 million and net purchases of short-term investments of \$88.4 million. For the nine months ended September 30, 2019, net cash used in investing activities was \$88.1 million, primarily due to purchases of property and equipment of \$87.1 million, which included the purchase of a building and land in Kirkland, Washington for \$52.3 million, net purchases of short-term investments of \$7.6 million and net contributions to the deferred compensation plan of \$1.8 million. These cash outflows were partially offset by proceeds from sales of property and equipment of \$9.3 million.

For the nine months ended September 30, 2020, net cash used in financing activities was \$49.6 million, primarily reflecting \$65.5 million used to pay dividends to our stockholders and dividend equivalents to our employees who hold RSUs, which was partially offset by \$20.3 million of cash proceeds from the vesting of RSUs and the issuance of shares through our ESPP. For the nine months ended September 30, 2019, net cash used in financing activities was \$31.0 million, primarily reflecting \$48.6 million used to pay dividends to our stockholders and dividend equivalents to our employees who hold RSUs, which was partially offset by \$17.8 million of cash proceeds from the vesting of RSUs and the issuance of shares through our ESPP.

We anticipate that cash used for future dividends and dividend equivalent payments, as well as payments for the one-time deemed repatriation transition tax and other expenditures, will come from our domestic cash, cash generated from ongoing U.S. operations, and cash repatriated from our Bermuda subsidiary. We also anticipate that earnings from other foreign subsidiaries will continue to be indefinitely reinvested.

Although consequences of the COVID-19 pandemic and resulting economic uncertainty could adversely affect our liquidity and capital resources in the future, and cash requirements may fluctuate based on the timing and extent of many factors such as those discussed above, we currently believe that cash generated from operations, together with the liquidity provided by existing cash balances and short-term investments, will be sufficient to satisfy our liquidity requirements for the next 12 months.

In the future, in order to strengthen our financial position, respond to adverse developments such as the COVID-19 pandemic, changes in our circumstance or unforeseen events or conditions, or fund our growth, we may need to discontinue paying dividends and dividend equivalents, and may need to raise additional funds by any one or a combination of the following: issuing equity securities, issuing debt or convertible debt securities, incurring indebtedness secured by our assets, or selling certain product lines and/or portions of our business. Accordingly, we cannot ensure that we will continue to pay dividends and dividend equivalents in the future, and there can be no guarantee that we will be able to raise additional funds on terms acceptable to us, or at all.

From time to time, we have engaged in discussions with third parties concerning capital investments and potential acquisitions of product lines, technologies, businesses and companies, and we continue to consider potential investments and acquisition candidates. Any such transactions could involve the issuance of a significant number of new equity securities, assumptions of debt, and/or payment of cash consideration. We may also be required to raise additional funds to complete any such investments or acquisitions, through either the issuance of equity and debt securities or incurring indebtedness secured by our assets. If we raise additional funds or acquire businesses or technologies through the issuance of equity securities or convertible debt securities, our existing stockholders may experience significant dilution.

Contractual Obligations

Our outstanding purchase commitments represent our obligations with our suppliers and other parties that require the future purchases of goods or services, which primarily consist of wafer and other inventory purchases, assembly and other manufacturing services, construction or purchases of property and equipment, and license arrangements. As of September 30, 2020, the outstanding balance under our purchase commitments was \$215.5 million.

Under the U.S. Tax Cuts and Jobs Act enacted in December 2017 (the “2017 Tax Act”), we have a transition tax liability which represents a one-time, mandatory deemed repatriation tax imposed on previously deferred foreign earnings. As permitted by the 2017 Tax Act, we elected to pay the tax liability in installments on an interest-free basis through 2025. As of September 30, 2020, the outstanding liability was \$18.7 million.

Our long-term obligations include long-term liabilities reflected on our Condensed Consolidated Balance Sheets, which primarily consist of the deferred compensation plan liabilities and accrued dividend equivalents. As of September 30, 2020, the outstanding long-term obligations were \$52.8 million.

Our other contractual obligations have not changed significantly from those disclosed in our Annual Report on Form 10-K for the year ended December 31, 2019.

Off-Balance Sheet Arrangements

As of September 30, 2020, we had no off-balance sheet arrangements as defined in Item 303(a)(4) of the SEC’s Regulation S-K.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

For a discussion of market risks, refer to Item 7A, “Quantitative and Qualitative Disclosures about Market Risk” in our Annual Report on Form 10-K for the year ended December 31, 2019. During the three and nine months ended September 30, 2020, there were no material changes or developments that would materially alter the market risk assessment performed as of December 31, 2019.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15(e) and Rule 15d-15(e) under the Securities Exchange Act of 1934 as of the end of the period covered by this Quarterly Report on Form 10-Q.

Based on this evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of September 30, 2020, our disclosure controls and procedures are designed at a reasonable assurance level and are effective to provide reasonable assurance that information we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC’s rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during the quarter ended September 30, 2020, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

As a result of the COVID-19 pandemic, we have implemented work-from-home arrangements in accordance with local shelter-in-place orders and other governmental restrictions in the United States, Europe and Asia during the three and nine months ended September 30, 2020. We have reviewed our financial reporting process and business continuity plans in order to mitigate the impact to our control environment, operating procedures, and data. We believe that our internal controls over financial reporting continue to be effective.

Limitations on Effectiveness of Controls and Procedures

In designing and evaluating the disclosure controls and procedures, management recognizes that any set of controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply its judgment in evaluating the benefits of possible controls and procedures relative to their costs.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

We are a party to actions and proceedings in the ordinary course of business, including potential litigation initiated by our stockholders, challenges to the enforceability or validity of our intellectual property, claims that our products infringe on the intellectual property rights of others, and employment matters. These proceedings often involve complex questions of fact and law and may require the expenditure of significant funds and the diversion of other resources to prosecute and defend. We defend ourselves vigorously against any such claims. As of September 30, 2020, there were no material pending legal proceedings to which we were a party.

ITEM 1A. RISK FACTORS

Our business involves numerous risks and uncertainties. You should carefully consider the risks described below, together with all of the other information in this Quarterly Report on Form 10-Q and other filings with the SEC in evaluating our business. If any of the following risks actually occur, our business, financial condition, operating results, and growth prospects would likely be materially and adversely affected. In such an event, the trading price of our common stock could decline, and you could lose all or part of your investment in our common stock. Our past financial performance should not be considered to be a reliable indicator of future performance, and investors should not use historical trends to anticipate results or trends in future periods. These risks involve forward-looking statements and our actual results may differ substantially from those discussed in these forward-looking statements.

The future trading price of our common stock could be subject to wide fluctuations in response to a variety of factors.

The future trading price of our common stock is likely to be highly volatile and could be subject to wide fluctuations in response to various factors, many of which are beyond our control, including:

- actual or anticipated results of operations and financial performance;
- general economic, industry and market conditions worldwide;
- our ability to outperform the market and outperform at a level that meets or exceeds our investors' expectations;
- whether our guidance meets the expectations of our investors;
- the breath and liquidity of the market for our common stock;
- developments generally affecting the semiconductor industry;
- commencement of or developments relating to our involvement in litigation;
- investor perceptions of us and our business strategies;
- changes in securities analysts' expectations or our failure to meet those expectations;
- actions by institutional or other large stockholders;
- terrorist acts or acts of war;
- epidemics and pandemics, such as the COVID-19 pandemic;
- trading activity in our common stock, including short positions;
- actual or anticipated manufacturing capacity limitations;
- developments with respect to intellectual property rights;
- introduction of new products by us or our competitors;
- our sale of common stock or other securities in the future;
- conditions and trends in technology industries;
- our loss of key customers;
- changes in market valuation or earnings of our competitors;
- any mergers, acquisitions or divestitures of assets undertaken by us;
- government debt default;
- changes in corporate tax laws;
- government policies and regulations on international trade policies and restrictions, including tariffs on imports of foreign goods;
- export controls, trade and economic sanctions and regulations, and other regulatory or contractual limitations on our ability to sell or develop our products in certain foreign markets, particularly in China;

- our ability to obtain governmental licenses and approvals for international trading activities or technology transfers, including export licenses;
- our ability to develop new products, enter new market segments, gain market share, manage litigation risk, diversify our customer base and successfully secure manufacturing capacity;
- our ability to increase our gross margins;
- our ability to accurately forecast future demand for our products;
- market reactions to guidance from other semiconductor companies or third-party research groups;
- market reactions to merger and acquisition activities in the semiconductor industry, and rumors or expectations of further consolidation in the industry;
- investments in sales and marketing resources to enter new markets;
- costs of increasing wafer capacity and qualifying additional third-party wafer fabrication facilities;
- cyber attacks or other system security, data protection and privacy breaches;
- our ability to pay quarterly cash dividends to stockholders; and
- changes in the estimation of the future size and growth rate of our markets.

In addition, the stock market often experiences substantial volatility that may be unrelated to the operating performance of particular companies. These broad market fluctuations may adversely affect the trading price of our common stock.

We expect our operating results to fluctuate from quarter to quarter and year over year, which may make it difficult to predict our future performance and could cause our stock price to decline and be volatile.

Our revenue, expenses, and results of operations are difficult to predict, have varied significantly in the past and will continue to fluctuate significantly in the future due to a number of factors, many of which are beyond our control. We expect fluctuations to continue for a number of reasons, including:

- changes in general demand for electronic products as a result of worldwide macroeconomic conditions;
- changes in business conditions at our distributors, value-added resellers and/or end-customers;
- changes in general economic conditions in the countries where our products are sold or used;
- the impact of epidemics and pandemics, such as the COVID-19 pandemic, on our business;
- adverse changes in laws and government regulations, such as tariffs on imports of foreign goods, export regulations and export classifications, including in foreign countries where we have offices or operations;
- the timing of developments and related expenses in our litigation matters;
- the loss of key customers or our inability to attract new customers due to customer and prospective customer concerns about being litigation targets;
- continued dependence on turns business (orders received and shipped within the same fiscal quarter);
- continued dependence on the Asian markets for our customer base;
- increases in assembly costs due to commodity price increases, such as the price of gold;
- the timing of new product introductions by us and our competitors;

- changes in our revenue mix between OEMs, ODMs, distributors and value-added resellers;
- changes in product mix, product returns, and actual and potential product liability;
- the acceptance of our new products in the marketplace;
- our ability to develop new process technologies and achieve volume production;
- our ability to meet customer product demand in a timely manner;
- the scheduling, rescheduling, or cancellation of orders by our customers;
- the cyclical nature of demand for our customers' products;
- fluctuations in our estimate for stock rotation reserves;
- our ability to manage our inventory levels, including the levels of inventory held by our distributors;
- our ability to accurately assess the impact of market conditions on the demand for our products;
- product obsolescence;
- seasonality and variability in the computing and storage, automotive, industrial, communications and consumer markets;
- the availability of adequate manufacturing capacity from our outside suppliers;
- increases in prices for finished wafers due to general capacity shortages;
- the potential loss of future business resulting from capacity issues;
- changes in manufacturing yields;
- movements in foreign exchange rates, interest rates or tax rates;
- the impact of new tax laws on our income tax provision and cash flows;
- the impact of tariffs on imports of foreign goods;
- the impact of cyber attacks or other system security, data protection and privacy breaches on our business operations; and
- stock-based compensation charges primarily resulting from performance and market-based equity awards granted to our employees.

Due to the factors noted above and other risks described in this section, many of which are beyond our control, you should not rely on quarter-to-quarter or year-over-year comparisons to predict our future financial performance. Unfavorable changes in any of the above factors may seriously harm our business, financial condition and results of operations, and may cause our stock price to decline and be volatile.

The ongoing effects of the global COVID-19 pandemic could adversely affect our business, results of operations and financial condition.

We face various risks related to epidemics and pandemics, including the global outbreak of COVID-19 first identified in December 2019. In March 2020, the World Health Organization characterized the COVID-19 outbreak as a pandemic. Since the beginning of 2020, governments around the world have imposed various mandatory measures and the private sectors have taken actions in an effort to combat the spread of the disease, such as travel restrictions, quarantines and business shutdowns. In addition, the U.S. government has declared a state of emergency or similar disaster declaration, and many states, including Washington and California where we have substantial operations, have enacted shelter-in-place or similar restrictive orders. These events have led to significant disruptions and uncertainties in the global economy and in the financial markets, which could materially and adversely affect our financial condition and results of operations. Uncertainties regarding the economic impact of the pandemic is likely to continue to result in sustained market turmoil and adversely impact the semiconductor industry, which could also negatively and materially impact our business, financial condition and results of operations.

The extent of the impact of the pandemic on our operational and financial performance will depend on numerous evolving developments, including the duration and magnitude of the pandemic, and the effects on our customers, employees, suppliers and other partners, all of which are uncertain and difficult to predict at this time. A prolonged outbreak could exacerbate the adverse impact on our business, which may include:

- a decrease in demand and pricing for our products, and losses of significant contracts or key customers as a result of a global economic downturn caused by the pandemic;
- our ability to accurately forecast our results of operation, including products sales and market demand for our products;
- negative impacts on our business operations, including reductions or delays in production levels, qualification activities with our customers, and valuation of our inventory due to changes in forecasted demand and our outlook on market conditions;
- disruptions to our distribution channels and supply chain in connection with the sourcing of materials from geographic areas that have been impacted by the pandemic;
- facility closures and increased costs resulting from work-from-home and other measures we have enacted at certain of our locations around the world to mitigate the impact of the pandemic and protect our employees' health and well-being; and
- losses on our debt investments due to failures of issuers to meet their current and future financial obligations, as well as write-offs of our accounts receivable due to defaults or significant delays in payments by our customers.

We are working with our stakeholders, including customers, suppliers and employees, to address the impact of this global pandemic. We continue to monitor the situation, to assess further possible implications to our business, supply chain and customers, and to take actions in an effort to mitigate adverse consequences. If and when the pandemic ends, the resumption of normal business operations after such interruptions may be delayed or constrained by lingering effects of the pandemic (including limitations imposed by governmental authorities on our ability to return to normal operating practices). These effects, alone or taken together, could have a material adverse impact on our business, results of operations or financial condition.

Our business has been and may be significantly impacted by worldwide economic conditions, in particular changing economic conditions in China.

In recent years, global credit and financial markets experienced disruptions, and may experience disruptions in the future, including diminished liquidity and credit availability, declines in consumer confidence, declines in economic growth, increases in unemployment rates, and uncertainty about economic stability. Economic uncertainty affects businesses such as ours in a number of ways, making it difficult to accurately forecast and plan our future business activities. The tightening of credit in financial markets may lead consumers and businesses to postpone spending, which may cause our customers to cancel, decrease or delay their existing and future orders with us. In addition, financial difficulties experienced by our suppliers or distributors could result in product delays, increased accounts receivable defaults and inventory challenges. Volatility in the credit markets could severely diminish liquidity and capital availability.

Demand for our products is a function of the health of the economies in the United States, Europe, China and the rest of Asia. We cannot predict the timing, strength or duration of any economic disruptions, such as those resulting from the COVID-19 pandemic, or subsequent economic recovery worldwide, in our industry, or in the different markets that we serve. We also may not accurately assess the impact of changing market and economic conditions on our business and operations. These and other economic factors have had, and may in the future have, a material adverse effect on demand for our products and on our financial condition and operating results.

In particular, since we have significant operations in China, our business development plans, results of operations and financial condition may be materially and adversely affected by significant political, social and economic developments in China. A slowdown in economic growth in China could adversely impact our customers, prospective customers, suppliers, distributors and partners in China, which could have a material adverse effect on our results of the operations and financial condition. There is no guarantee that economic downturns, whether actual or perceived, any further decrease in economic growth rates or an otherwise uncertain economic outlook in China will not occur or persist in the future, that they will not be protracted, or that governments will respond adequately to control and reverse such conditions, any of which could materially and adversely affect our business, financial condition and results of operations.

Recent changes in international trade policy and rising concern of international tariffs, including tariffs applied to goods traded between the United States and China, could materially and adversely affect our business and results of operations.

Since the beginning of 2018, there has been increasing rhetoric, in some cases coupled with legislative or executive action, from several U.S. and foreign leaders regarding tariffs against foreign imports of certain materials. More specifically, there have been several rounds of U.S. tariffs on Chinese goods taking effect in 2018 and 2019, some of which prompted retaliatory Chinese tariffs on U.S. goods. The institution of trade tariffs both globally and between the U.S. and China specifically carries the risk of negatively affecting China's overall economic condition, which could have a negative impact on us as we have significant operations in China. Furthermore, imposition of tariffs could cause a decrease in the sales of our products to customers located in China or other customers selling to Chinese end users, which would directly impact our business, financial condition and results of operations.

We are subject to export restrictions and laws affecting trade and investments that could materially and adversely affect our business and results of operations.

As a global company headquartered in the United States, we are subject to U.S. laws and regulations that could limit and restrict the export of some of our products and services and may restrict our transactions with certain customers, business partners and other persons, including, in certain cases, dealings with or between our employees and subsidiaries. In certain circumstances, export control and economic sanctions regulations may prohibit the export of certain products, services and technologies, and in other circumstances we may be required to obtain an export license before exporting the controlled item. Compliance with these laws and regulations has not materially limited our operations or our sales, but could materially limit them in the future, which would materially and adversely affect our business and results of operations. We maintain an export compliance program but there are risks that the compliance controls could be circumvented, exposing us to legal liabilities. We must also comply with export restrictions and laws imposed by other countries affecting trade and investments. Although these restrictions and laws have not materially restricted our operations in the recent past, there is a significant risk that they could do so in the future, which would materially and adversely affect our business and results of operations. In addition, U.S. laws and regulations and sanctions, or threat of sanctions, that could limit and restrict the export of some of our products and services to our customers may also encourage our customers to develop their own solutions to replace our products, or seek to obtain a greater supply of similar or substitute products from our competitors that are not subject to these restrictions, which could materially and adversely affect our business, financial condition and results of operations.

Moreover, U.S. government's actions targeting exports of certain technologies to China are becoming more pervasive. For example, in May 2019, President Trump issued an executive order that invoked national emergency economic powers to implement a framework to regulate the acquisition or transfer of information communications technology in transactions that imposed undue national security risks. These actions could lead to additional restrictions on the export of products that include or enable certain technologies, including products we provide to China-based customers.

The highly cyclical nature of the semiconductor industry, which has produced significant and sometimes prolonged downturns, could materially and adversely affect our financial condition and results of operations.

Historically, the semiconductor industry has been highly cyclical and, at various times, has experienced significant downturns and wide fluctuations in supply and demand. The semiconductor industry is currently experiencing such a downturn. These conditions have caused significant variances in product demand and production capacity, as well as rapid erosion of average selling prices. The industry may experience severe or prolonged downturns in the future, which could result in downward pressure on the price of our products as well as lower demand for our products. Because significant portions of our expenses are fixed in the short term or incurred in advance of anticipated sales, we may not be able to decrease our expenses in a timely manner to offset any sales shortfall. Any significant or prolonged downturns could have a material adverse effect on our business, financial condition and results of operations.

We may not be profitable on a quarterly or annual basis.

Our profitability is dependent on many factors, including:

- our sales, which because of our turns business, are difficult to accurately forecast;
- the cancellation or rescheduling of our customers' orders, which may occur without significant penalty to our customers;
- changes in general demand for electronic products as a result of worldwide macroeconomic conditions;
- changes in revenue mix between OEMs, ODMs, distributors and value-added resellers;

- changes in product mix, and actual and potential product liability;
- changes in revenue mix between end market segments (i.e. computing and storage, automotive, industrial, communications and consumer);
- our competition, which could adversely impact our selling prices and our potential sales;
- our manufacturing costs, including our ability to negotiate with our vendors and our ability to efficiently run our test facility in China;
- manufacturing capacity constraints;
- level of activity in our legal proceedings, which could result in significant legal expenses;
- the impact of new tax laws and other government regulations, such as tariffs on imports of foreign goods or regulations restricting the export of goods and services between the U.S. and China;
- stock-based compensation charges primarily resulting from performance and market-based equity awards granted to our employees; and
- our operating expenses, including general and administrative expenses, selling and marketing expenses, and research and development expenses relating to products that will not be introduced and will not generate revenue until later periods, if at all.

We may not achieve profitability on a quarterly or annual basis in the future. Unfavorable changes in our operations, including any of the factors noted above, may have a material adverse effect on our quarterly or annual profitability.

We may not experience growth rates comparable to past years.

In the past, our revenue increased significantly in certain years due to increased sales of certain of our products. We are subject to numerous risks and factors that could cause a decrease in our growth rates compared to past periods, including increased competition, loss of certain of our customers, unfavorable changes in our operations, reduced global electronics demand, a deterioration in market conditions, end-customer market downturn, market acceptance and penetration of our current and future products, and litigation. A material decrease in our growth rates could adversely affect our stock price and results of operations.

We may be unsuccessful in developing and selling new products with margins similar to or better than what we have experienced in the past, which would impact our overall gross margin and financial performance.

Our success depends on products that are differentiated in the market, which result in gross margins that have historically been above industry averages. Should we fail to improve our gross margin in the future, and accordingly develop and introduce sufficiently differentiated products that result in higher gross margins than industry averages, our business, financial condition and results of operations could be materially and adversely affected.

Industry consolidation may lead to increased competition and may harm our operating results.

In recent years, there has been a trend toward semiconductor industry consolidation. We expect this trend to continue as companies attempt to improve the leverage of growing research and development costs, strengthen or hold their market positions in an evolving industry, or become unable to continue operations unless they find an acquirer or consolidate with another company. In addition, companies that are strategic alliance partners in some areas of our business may acquire or form alliances with our competitors, thereby reducing their business with us. We believe that semiconductor industry consolidation may result in stronger competitors that are better able to compete as sole-source vendors for customers. This could lead to more variability in our operating results and could have a material adverse effect on our business, financial condition and results of operations.

If demand for our products declines in the major end markets that we serve, our revenue will decrease and our results of operations and financial condition would be materially and adversely affected.

We believe that the application of our products in the computing and storage, automotive, industrial, communications and consumer markets will continue to account for the majority of our revenue. If the demand for our products declines in the major end markets that we serve, our revenue will decrease and our results of operations and financial condition would be materially and adversely affected. In addition, as technology evolves, the ability to integrate the functionalities of various components, including our discrete semiconductor products, onto a single chip and/or onto other components of systems containing our products increases. Should our customers require integrated solutions that we do not offer, demand for our products could decrease, and our business, financial condition and results of operations would be materially and adversely affected.

We may be unsuccessful in developing and selling new products or in penetrating new markets required to maintain or expand our business.

Our competitiveness and future success depend on our ability to design, develop, manufacture, assemble, test, market, and support new products and enhancements on a timely and cost-effective basis. A fundamental shift in technologies in any of our product markets could have a material adverse effect on our competitive position within these markets. Our failure to timely develop new technologies or to react quickly to changes in existing technologies could materially delay our development of new products, which could result in product obsolescence, decreased revenue, and/or a loss of market share to competitors.

As we develop new product lines, we must adapt to market conditions that are unfamiliar to us, such as competitors and distribution channels that are different from those we have known in the past. Some of our new product lines require us to re-equip our labs to test parameters we have not tested in the past. If we are unable to adapt rapidly to these new and additional conditions, we may not be able to successfully penetrate new markets.

The success of a new product depends on accurate forecasts of long-term market demand and future technological developments, as well as on a variety of specific implementation factors, including:

- timely and efficient completion of process design and device structure improvements;
- timely and efficient implementation of manufacturing, assembly, and test processes;
- the ability to secure and effectively utilize fabrication capacity in different geometries;
- product performance;
- product availability;
- product quality and reliability; and
- effective marketing, sales and service.

To the extent that we fail to timely introduce new products or to quickly penetrate new markets, our business, financial condition and results of operations could be materially and adversely affected.

We may face competition from customers developing products internally.

Our customers generally have substantial technological capabilities and financial resources. Some customers have traditionally used these resources to develop their own products internally. The future prospects for our products in these markets are dependent in part upon our customers' acceptance of our products as an alternative to their internally developed products. Future sales prospects also are dependent upon acceptance of third-party sourcing for products as an alternative to in-house development. Customers may in the future continue to use internally developed components. They may also decide to develop or acquire components, technologies or products that are similar to, or that may be substituted for, our products. If our customers fail to accept our products as an alternative, if they develop or acquire the technology to develop such components internally rather than purchase our products, or if we are otherwise unable to develop or maintain strong relationships with them, our business, financial condition and results of operations could be materially and adversely affected.

We derive most of our revenue from direct or indirect sales to customers in Asia and have significant operations in Asia, which may expose us to political, cultural, regulatory, economic, foreign exchange, and operational risks.

We derive most of our revenue from customers located in Asia through direct sales or indirect sales through distribution arrangements and value-added reseller agreements with parties located in Asia. As a result, we are subject to increased risks due to this geographic concentration of business and operations. For the three and nine months ended September 30, 2020, 93% and 91% of our revenue, respectively, was from customers in Asia. There are risks inherent in doing business in Asia, and internationally in general, including:

- changes in, or impositions of, legislative or regulatory requirements, including tax laws in the U.S. and in the countries in which we manufacture or sell our products, and government action to restrict our ability to sell to foreign customers where sales of products may require export license;

- trade restrictions, including restrictions imposed by the United States on trading with parties in foreign countries;
- currency exchange rate fluctuations impacting intra-company transactions;
- the fluctuations in the value of the U.S. Dollar relative to other foreign currencies, which could affect the competitiveness of our products;
- transportation delays;
- changes in tax regulations in China that may impact our tax status in Chengdu, Hangzhou and other regions where we have significant operations;
- tariffs imposed by China and the United States that may impact our sales;
- export controls, trade and economic sanctions and regulations, and other regulatory or contractual limitations on our ability to sell or develop our products in China;
- multi-tiered distribution channels that lack visibility to end customer pricing and purchase patterns;
- international political relationships and threats of war;
- terrorism and threats of terrorism;
- epidemics and illnesses, such as the COVID-19 pandemic;
- work stoppages and infrastructure problems due to adverse weather conditions or natural disasters;
- work stoppages related to employee dissatisfaction;
- economic, social and political instability;
- longer accounts receivable collection cycles and difficulties in collecting accounts receivables;
- enforcing contracts generally; and
- less effective protection of intellectual property and contractual arrangements.

If we fail to expand our customer base and significantly reduce the geographic concentration of our customers, we will continue to be subject to the foregoing risks, which could materially and adversely affect our business, financial condition and results of operations.

We depend on a limited number of customers, including distributors, for a significant percentage of our revenue.

Historically, we have generated most of our revenue from a limited number of customers, including distributors. For example, sales to our largest distributor accounted for 22% and 23% of our total revenue for the three and nine months ended September 30, 2020, respectively. We continue to rely on a limited number of customers for a significant portion of our revenue. Because we rely on a limited number of customers for significant percentages of our revenue, a decrease in demand or significant pricing pressure for our products from any of our major customers for any reason (including due to competition, market conditions, catastrophic events or otherwise) could have a materially adverse impact on our business, financial condition and results of operations.

We are subject to anti-corruption laws in the jurisdictions in which we operate, including the U.S. Foreign Corrupt Practices Act (the “FCPA”). Our failure to comply with these laws could result in penalties which could harm our reputation and have a material adverse effect on our business, financial condition and results of operations.

We are subject to the FCPA, which generally prohibits companies and their intermediaries from making improper payments to foreign officials for the purpose of obtaining or keeping business and/or other benefits, along with various other anti-corruption laws. Although we have implemented policies and procedures designed to ensure that we, our employees and other intermediaries comply with the FCPA and other anti-corruption laws to which we are subject, there is no assurance that such policies or procedures will work effectively all of the time or protect us against liability under the FCPA or other laws for actions taken by our employees and other intermediaries with respect to our business or any businesses that we may acquire. We have significant operations in Asia, which place us in frequent contact with persons who may be considered “foreign officials” under the FCPA, resulting in an elevated risk of potential FCPA violations. If we are not in compliance with the FCPA and other laws governing the conduct of business with government entities (including local laws), we may be subject to criminal and civil penalties and other remedial measures, which could have a material adverse impact on our business, financial condition, results of operations and liquidity. Any investigation of any potential violations of the FCPA or other anti-corruption laws by the U.S. or foreign authorities could harm our reputation and have an adverse impact on our business, financial condition and results of operations.

We receive a significant portion of our revenue from distribution arrangements, value-added resellers and direct customers, and the loss of any one of these distributors, value-added resellers or direct customers or failure to collect a receivable from them could adversely affect our financial position and results of operations.

We market our products through distribution arrangements and value-added resellers, and through our direct sales and applications support organization to customers that include OEMs, ODMs and EMS providers. Receivables from our customers are generally not secured by any type of collateral and are subject to the risk of being uncollectible. Sales to our largest distributor accounted for 22% and 23% of our total revenue for the three and nine months ended September 30, 2020, respectively. Significant deterioration in the liquidity or financial condition of any of our major customers or any group of our customers could have a material adverse impact on the collectability of our accounts receivable and our future operating results. We primarily conduct our sales on a purchase order basis, and we do not have any long-term supply commitments.

Moreover, we believe a high percentage of our products are eventually sold to a number of OEMs. Although we communicate with OEMs in an attempt to achieve “design wins,” which are decisions by OEMs and/or ODMs to incorporate our products, we do not have purchase commitments from these end users. Therefore, there can be no assurance that the OEMs and/or ODMs will continue to incorporate our ICs into their products. OEM technical specifications and requirements can change rapidly, and we may not have products that fit new specifications from an end customer for whom we have had previous design wins. We cannot be certain that we will continue to achieve design wins from large OEMs, that our direct customers will continue to be successful in selling to the OEMs, or that the OEMs will be successful in selling products which incorporate our ICs. The loss of any significant customer, any material reduction in orders by any of our significant customers or by their OEM customers, the cancellation of a significant customer order, or the cancellation or delay of a customer’s or an OEM’s significant program or product could reduce our revenue and adversely affect our financial condition and results of operations.

Due to the nature of our business as a component supplier, we may have difficulty both in accurately predicting our future revenue and appropriately managing our expenses.

Because we provide components for end products and systems, demand for our products is influenced by our customers’ end product demand. As a result, we may have difficulty in accurately forecasting our revenue and expenses. Our revenue depends on the timing, size, and speed of commercial introductions of end products and systems that incorporate our products, all of which are inherently difficult to forecast, as well as the ongoing demand for previously introduced end products and systems. In addition, demand for our products is influenced by our customers’ ability to manage their inventory. Our sales to distributors are subject to higher volatility because they service demand from multiple levels of the supply chain which, in itself, is inherently difficult to forecast, all of which may continue to be exacerbated by the adverse effects of the COVID-19 pandemic. If our customers, including distributors, do not manage their inventory correctly or misjudge their customers’ demand, our shipments to and orders from our customers may vary significantly on a quarterly basis, which could reduce our revenue and adversely affect our financial condition and results of operations.

Our ability to increase product sales and revenue may be constrained by the manufacturing capacity of our suppliers.

Although we provide our suppliers with rolling forecasts of our production requirements, their ability to provide wafers to us is limited by the available capacity, particularly capacity in the geometries we require, at the facilities in which they manufacture wafers for us. As a result, this lack of capacity has at times constrained our product sales and revenue growth. In addition, an increased need for capacity to meet internal demands or demands of other customers could cause our suppliers to reduce capacity available to us. Our suppliers may also require us to pay amounts in excess of contracted or anticipated amounts for wafer deliveries or require us to make other concessions in order to acquire the wafer supply necessary to meet our customer requirements. If our suppliers extend lead times, limit supplies or the types of capacity we require, or increase prices due to capacity constraints or other factors, our revenue and gross margin may materially decline. In addition, if we experience supply delays or limitations, our customers may reduce their purchase levels with us and/or seek alternative solutions to meet their demand, which could materially and adversely impact our business and results of operations. Delays in increasing third-party manufacturing capacity may also limit our ability to meet customer demand.

We currently depend on third-party suppliers to provide us with wafers for our products. If any of our wafer suppliers become insolvent or capacity constrained and are unable to provide us sufficient wafers at acceptable yields and at anticipated costs, our revenue and gross margin may decline or we may not be able to fulfill our customer orders.

We have a supply arrangement with certain suppliers for the production of wafers. Should any of our suppliers become insolvent or capacity constrained, we may not be able to fulfill our customer orders, which would likely cause a decline in our revenue.

While certain aspects of our relationship with these suppliers are contractual, many important aspects of this relationship depend on our suppliers' continued cooperation and our management of the supplier relationships. In addition, the fabrication of ICs is a highly complex and precise process. Problems in the fabrication process can cause a substantial percentage of wafers to be rejected or numerous ICs on each wafer to be non-functional. This could potentially reduce yields. The failure of our suppliers to supply us wafers at acceptable yields could prevent us from fulfilling our customer orders for our products and would likely cause a decline in our revenue.

Further, as is common in the semiconductor industry, our customers may reschedule or cancel orders on relatively short notice. If our customers cancel orders after we submit a committed forecast to our suppliers for the corresponding wafers, we may be required to purchase wafers that we may not be able to resell, which would adversely affect our financial condition, results of operations and cash flows.

We might not be able to deliver our products on a timely basis if our relationships with our assembly and test subcontractors are disrupted or terminated.

We do not have direct control over product delivery schedules or product quality because all of our products are assembled by third-party subcontractors and a portion of our testing is currently performed by third-party subcontractors. Also, due to the amount of time typically required to qualify assembly and test subcontractors, we could experience delays in the shipment of our products if we were forced to find alternate third parties to assemble or test our products. In addition, events such as global economic crises and the COVID-19 pandemic may materially impact our assembly suppliers' ability to operate. Any future product delivery delays or disruptions in our relationships with our subcontractors could have a material adverse effect on our financial condition, results of operations and cash flows.

There may be unanticipated costs associated with adding to or supplementing our third-party suppliers' manufacturing capacity.

We anticipate that future growth of our business will require increased manufacturing capacity on the part of third-party supply foundries, assembly shops, and testing facilities for our products. In order to facilitate such growth, we may need to enter into strategic transactions, investments and other activities. Such activities are subject to a number of risks, including:

- the costs and expense associated with such activities;
- the availability of modern foundries to be developed, acquired, leased or otherwise made available to us or our third-party suppliers;
- the ability of foundries and our third-party suppliers to obtain the advanced equipment used in the production of our products;
- delays in bringing new foundry operations online to meet increased product demand; and
- unforeseen environmental, engineering or manufacturing qualification problems relating to existing or new foundry facilities, including delays in qualification of new foundries by our customers.

These and other risks may affect the ultimate cost and timing of any expansion of our third-party suppliers' capacity.

We purchase inventory in advance based on expected demand for our products, and if demand is not as expected, we may have insufficient or excess inventory, which could adversely impact our financial position.

As a fabless semiconductor company, we purchase our inventory from third-party manufacturers in advance of selling our products. We place orders with our manufacturers based on existing and expected orders from our customers for particular products. While most of our contracts with our customers and distributors include lead time requirements and cancellation penalties that are designed to protect us from misalignment between customer orders and inventory levels, we must nonetheless make some predictions when we place orders with our manufacturers. In the event that our predictions are inaccurate due to unexpected increases in orders or unavailability of product within the timeframe that is required, we may have insufficient inventory to meet our customer demands. In addition, a perceived negative trend in market condition could lead us to decrease the manufacturing volume of our products to avoid excess inventory. If we inaccurately assessed the market conditions for our products, we would have insufficient inventory to meet our customer demands. In the event that we order products that we are unable to sell due to a decrease in orders, unexpected order cancellations, injunctions due to patent litigation, or product returns, we may have excess inventory which, if not sold, may need to be written down or would result in a decrease in our revenue in future periods as the excess inventory at our distributors is sold. If any of these situations were to arise, it could have a material impact on our business, financial condition and results of operations.

The complexity of calculating our tax provision may result in errors that could result in restatements of our financial statements.

Due to the complexity associated with the calculation of our tax provision, including the effects of the 2017 Tax Act and the enactment of other tax laws, we engage third-party tax advisors to assist us in the calculation. If we or our tax advisors fail to resolve or fully understand certain issues that we may have had in the past and issues that may arise in the future, we could be subject to errors, which, if material, would result in us having to restate our financial statements. Restatements are generally costly and could adversely impact our results of operations, damage our reputation, and/or have a negative impact on the trading price of our common stock.

Changes in effective tax rates or adverse outcomes resulting from examination of our income tax returns could adversely affect our results of operations.

Our future effective tax rates could be adversely affected by earnings being lower than anticipated in countries where we have lower statutory rates and higher than anticipated in countries where we have higher statutory rates, by changes in the valuation of our deferred tax assets, or by changes in tax laws such as the 2017 Tax Act, regulations, accounting principles or interpretations thereof and discrete items such as vesting of RSUs. In addition, we are subject to potential future examinations of our income tax returns by the IRS and other tax authorities. We assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. There can be no assurance that the outcomes from any examinations will not have an adverse effect on our financial condition and results of operations.

Our international operations subject us to potentially significant tax consequences, which could adversely affect our results of operations.

We conduct our international operations through wholly-owned subsidiaries, branches and representative offices and report our taxable income in various jurisdictions worldwide based upon our business operations in those jurisdictions. Such corporate structures are subject to complex transfer pricing regulations administered by taxing authorities in various jurisdictions. The relevant taxing authorities may disagree with our determinations as to the income and expenses attributable to specific jurisdictions. If such a disagreement were to occur, and our positions were not sustained, we could be required to pay additional taxes, interest and penalties, resulting in higher effective tax rates, reduced cash flows and lower overall profitability of our operations. Additionally, our future worldwide tax rate and financial position may be affected by changes in the relevant tax laws, interpretation of such tax laws or the influence of certain tax policy efforts of the European Union and the Organization for Economic Co-operation and Development.

Implementation of an enterprise resource planning (“ERP”) or other information technology systems could result in significant disruptions to our operations.

From time to time, we may implement new ERP software solutions or upgrade existing systems. Implementation of these solutions and systems is highly dependent on coordination of system providers and internal business teams. We may experience difficulties as we transition to these new or upgraded systems and processes, including loss or corruption of financial, business or customer data. In addition, transitioning to these new systems requires significant capital investments and personnel resources. Difficulties in implementing new or upgraded information systems or any significant system failures could disrupt our operations, which could have a material adverse effect on our capital resources, financial condition or results of operations.

System security risks, data protection or privacy breaches, cyber attacks and systems integration issues could disrupt our internal operations and/or harm our reputation, and any such disruption or harm could cause a reduction in our expected revenue, increase our expenses, negatively impact our results of operation or otherwise adversely affect our stock price.

Experienced computer programmers and hackers may be able to penetrate our network security and misappropriate or compromise our confidential and proprietary information, create system disruptions or cause shutdowns. The costs to us to eliminate or alleviate cyber or other security problems, bugs, viruses, worms, malicious software programs and security vulnerabilities could be significant, and our efforts to address these problems may not be successful and could result in interruptions and delays that may impede our sales, manufacturing, distribution, financial reporting or other critical functions.

In the ordinary course of business, we store sensitive data on our internal systems, network and servers, such as proprietary business and financial information, and confidential data pertaining to our customers, suppliers and business partners. The secure maintenance of sensitive information on our networks and the protection features of our solutions are both critical to our operations and business strategy. We devote significant resources to network security, data encryption, and other security measures to protect our systems and data. However, these security measures cannot provide absolute security. Although we make significant efforts to maintain the security and integrity of our systems and solutions, any destructive or intrusive breach could compromise our networks, creating system disruptions or slowdowns, and the information stored on our networks could be accessed, publicly disclosed, lost or stolen. If any of these types of security breaches were to occur and we were unable to protect sensitive data, our relationships with our business partners and customers could be materially damaged, our reputation could be materially harmed, and we could be exposed to a risk of litigation and possible significant liability.

Portions of our IT infrastructure also may experience interruptions, delays or cessations of service or produce errors in connection with systems integration or migration work that takes place from time to time. We may not be successful in implementing new systems and transitioning data, which could cause business disruptions and our remediation efforts may be expensive, time consuming, disruptive and resource-intensive. Such disruptions could adversely impact our ability to fulfill orders and interrupt other processes. Delayed sales or lost customers resulting from these disruptions could adversely affect our financial results, stock price and reputation.

Effective May 25, 2018, the European Union (“EU”) implemented the General Data Protection Regulation (“GDPR”), a broad data protection framework that expands the scope of current EU data protection law to non-European Union entities that process, or control the processing of, the personal information of EU subjects. The GDPR allows for the imposition of fines and corrective action on entities that improperly use or disclose the personal information of EU subjects, including through a data security breach. The State of California enacted the California Consumer Privacy Act of 2018 (“CCPA”), effective on January 1, 2020, which contains requirements similar to GDPR for the handling of personal information of California residents.

Our failure to fully comply with GDPR, CCPA and other laws could lead to significant fines and require onerous corrective action. In addition, data security breaches experienced by us could result in the loss of trade secrets or other intellectual property, public disclosure of sensitive commercial data, and the exposure of personally identifiable information (including sensitive personal information) of our employees, customers, suppliers and others.

Unauthorized use or disclosure of, or access to, any personal information maintained by us or on our behalf, whether through breach of our systems, breach of the systems of our suppliers or vendors by an unauthorized party, or through employee error, theft or misuse, or otherwise, could harm our business. If any such unauthorized use or disclosure of, or access to, such personal information was to occur, our operations could be seriously disrupted, and we could be subject to demands, claims and litigation by private parties, and investigations, related actions, and penalties by regulatory authorities. In addition, we could incur significant costs in notifying affected persons and entities and otherwise complying with the multitude of foreign, federal, state and local laws and regulations relating to the unauthorized access to, or use or disclosure of, personal information. Finally, any perceived or actual unauthorized access to, or use or disclosure of, such information could harm our reputation, substantially impair our ability to attract and retain customers and have an adverse impact on our business, financial condition and results of operations.

If we are unsuccessful in legal proceedings brought against us or any of our customers, we could be prevented from selling many of our products and/or be required to pay substantial damages. An unfavorable outcome or an additional award of damages, attorneys’ fees or an injunction could cause our revenue to decline significantly and could severely harm our business and operating results.

From time to time we are a party to various legal proceedings. If we are not successful in litigation that could be brought against us or our customers, we could be ordered to pay monetary fines and/or damages. If we are found liable for willful patent infringement, damages could be significant. We and/or our customers could also be prevented from selling some or all of our products. Moreover, our customers and end users could decide not to use our products, and our products and our customers’ accounts payable to us could be seized. Finally, interim developments in these proceedings could increase the volatility in our stock price as the market assesses the impact of such developments on the likelihood that we will or will not ultimately prevail in these proceedings.

Given our inability to control the timing and nature of significant events in our legal proceedings that either have arisen or may arise, our legal expenses are difficult to forecast and may vary substantially from our publicly disclosed forecasts with respect to any given quarter, which could contribute to increased volatility in our stock price and financial condition.

Historically, we have incurred significant expenses in connection with various legal proceedings that vary with the level of activity in the proceeding. It is difficult for us to forecast our legal expenses for any given quarter, which adversely affects our ability to forecast our expected results of operations in general. We may also be subject to unanticipated legal proceedings, which would result in us incurring unexpected legal expenses. If we fail to meet the expectations of securities or industry analysts as a result of unexpected changes in our legal expenses, our stock price could be materially impacted.

Future legal proceedings may divert our financial and management resources.

The semiconductor industry is characterized by frequent claims of infringement and litigation regarding patent and other intellectual property rights. Patent infringement is an ongoing risk, in part because other companies in our industry could have patent rights that may not be identifiable when we initiate development efforts. Litigation may be necessary to enforce our intellectual property rights, and we may have to defend ourselves against additional infringement claims. Such litigation is very costly. In the event any third party makes a new infringement claim against us or our customers, we could incur additional ongoing legal expenses. In addition, in connection with these legal proceedings, we may be required to post bonds to defend our intellectual property rights in certain countries for an indefinite period of time, until such dispute is resolved. If our legal expenses materially increase or exceed anticipated amounts, our capital resources and financial condition could be adversely affected. Further, if we are not successful in any of our intellectual property defenses, our financial condition could be adversely affected and our business could be harmed. Our management team may also be required to devote a great deal of time and effort to these legal proceedings, which could divert management's attention from focusing on our operations and adversely affect our business.

Failure to protect our proprietary technologies or maintain the right to certain technologies may negatively affect our ability to compete.

We rely heavily on our proprietary technologies. Our future success and competitive position depend in part upon our ability to obtain and maintain protection of certain proprietary technologies used in our products. We pursue patents for some of our new products and unique technologies, and we also rely on a combination of nondisclosure agreements and other contractual provisions, as well as our employees' commitment to confidentiality and loyalty, to protect our technology, know-how and processes. Despite the precautions we take, it may be possible for unauthorized third parties to copy aspects of our current or future technologies or products, or to obtain and use information that we regard as proprietary. We intend to continue to protect our proprietary technologies, including through patents. However, there can be no assurance that the steps we take will be adequate to protect our proprietary rights, that our patent applications will lead to issued patents, that others will not develop or patent similar or superior products or technologies, or that our patents will not be challenged, invalidated or circumvented by others. Furthermore, the laws of the countries in which our products are or may be developed, manufactured or sold may not protect our products and intellectual property rights to the same extent as laws in the United States. Our failure to adequately protect our proprietary technologies could materially harm our business.

We face risks in connection with our internal control over financial reporting.

Effective internal control over financial reporting is necessary for us to provide reliable and accurate financial reports. If we cannot provide reliable financial reports or prevent fraud or other financial misconduct, our business and operating results could be harmed. Our failure to implement and maintain effective internal control over financial reporting could result in a material misstatement of our financial statements or otherwise cause us to fail to meet our financial reporting obligations. This, in turn, could result in a loss of investor confidence in the accuracy and completeness of our financial reports, which could have an adverse effect on our results of operations and/or have a negative impact on the trading price of our common stock, and could subject us to stockholder litigation. In addition, we cannot assure you that we will not in the future identify material weaknesses in our internal control over financial reporting that we have not discovered to date, which may impact the reliability of our financial reporting and financial statements.

Our products must meet specifications, and undetected defects and failures may occur, which may cause customers to return or stop buying our products and may expose us to product liability risk.

Our customers generally establish demanding specifications for quality, performance, and reliability that our products must meet. ICs as complex as ours often encounter development delays and may contain undetected defects or failures when first introduced or after commencement of commercial shipments, which might require product replacement or recall. Further, our third-party manufacturing processes or changes thereof, or raw material used in the manufacturing processes may cause our products to fail. We have from time to time in the past experienced product quality, performance or reliability problems. Our standard warranty period is generally one to two years, which exposes us to significant risks of claims for defects and failures. If defects and failures occur in our products, we could experience lost revenue, increased costs, including warranty expense and costs associated with customer support, cancellations or rescheduling of orders or shipments, and product returns or discounts, any of which would harm our operating results.

In addition, product liability claims may be asserted with respect to our technology or products. Although we currently have insurance, there can be no assurance that we have obtained a sufficient amount of insurance coverage, that asserted claims will be within the scope of coverage of the insurance, or that we will have sufficient resources to satisfy any asserted claims.

The price and availability of commodities (e.g., gold, copper and silicon) may adversely impact our ability to deliver our products in a timely and cost-effective manner, and may adversely affect our business and results of operations.

Our products incorporate commodities such as gold, copper and silicon. An increase in the price or a decrease in the availability of these commodities and similar commodities that we use could negatively impact our business and results of operations.

Fluctuations in the value of the U.S. Dollar relative to other foreign currencies, including the Renminbi, may adversely affect results of operations.

Our manufacturing and packaging suppliers are and will continue to be primarily located in China for the foreseeable future. If the value of the Renminbi rises against the U.S. Dollar, there could be an increase in our manufacturing costs relative to competitors who have manufacturing facilities located in the U.S., which could adversely affect our operations. In addition, our sales are primarily denominated in the U.S. Dollar. If the value of the U.S. Dollar rises against other currencies, it may adversely affect the demand for our products in international markets, which could negatively impact our business and results of operations.

We incur foreign currency exchange gains or losses related to the timing of payments for transactions between the U.S. and our foreign subsidiaries, which are reported in interest and other income in the statements of operations. Fluctuations in the value of the U.S. Dollar relative to the foreign currencies could increase the amount of foreign currency exchange losses we record, which could have an adverse impact on our results of operations.

Our business is subject to various governmental laws and regulations, and compliance with these regulations may impact our revenue and cause us to incur significant expense. If we fail to maintain compliance with applicable regulations or obtain government licenses and approvals for our desired international trading activities or technology transfers, we may be forced to recall products and cease their distribution, and we could be subject to civil or criminal penalties.

Our business is subject to various significant laws and other legal requirements imposed by the U.S. and other countries we conduct business with, including export control laws such as the Export Administration Act, the Export Administration Regulations and other laws, regulations and requirements governing international trade and technology transfer. These laws and regulations are complex, change frequently and have generally become more stringent over time. We may be required to incur significant expense to comply with these regulations or to remedy violations of these regulations. In addition, if our customers fail to comply with these regulations, we may be required to suspend sales to these customers, which could negatively impact our results of operations. We must conform the manufacture and distribution of our products to various laws and adapt to regulatory requirements in many countries as these requirements change. If we fail to comply with these requirements in the manufacture or distribution of our products, we could be required to pay civil penalties, face criminal prosecution and, in some cases, be prohibited from distributing our products commercially until the products are brought into compliance.

Environmental laws and regulations could cause a disruption in our business and operations.

We are subject to various state, federal and international laws and regulations governing the environment, including those restricting the presence of certain substances in electronic products and making manufacturers of those products financially responsible for the collection, treatment, recycling and disposal of certain products. Such laws and regulations have been passed in several jurisdictions in which we operate, including various European Union member countries and countries in Asia. There can be no assurance that similar laws and regulations will not be implemented in other jurisdictions resulting in additional costs, possible delays in delivering products, and even the discontinuance of existing and planned future products if the cost were to become prohibitive.

We and our manufacturing partners are or will be subject to extensive Chinese government regulation, and the benefit of various incentives from Chinese governments that we and our manufacturing partners receive may be reduced or eliminated, which could increase our costs or limit our ability to sell products and conduct activities in China.

We have manufacturing and testing facilities in China and most of our manufacturing partners are located in China. The Chinese government has broad discretion and authority to regulate the technology industry in China. Additionally, China's government has implemented policies from time to time to regulate economic expansion in China. It exercises significant control over China's economic growth through the allocation of resources, controlling payment of foreign currency-denominated obligations, setting monetary policy and providing preferential treatment to particular industries or companies.

Personal privacy, cyber security, and data protection are becoming increasingly significant issues in China. To address these issues, the Standing Committee of the National People's Congress promulgated the Cyber Security Law of the People's Republic of China (the "Cyber Security Law"), which took effect on June 1, 2017. The Cyber Security Law sets forth various requirements relating to the collection, use, storage, disclosure and security of data, among other things. Various Chinese agencies are expected to issue additional regulations in the future to define these requirements more precisely. These requirements may increase our costs of compliance. We cannot assure you that we will be able to comply with all of these regulatory requirements. Any failure to comply with the Cyber Security Law and the relevant regulations and policies could result in further cost and liability to us and could adversely affect our business and results of operations. Additionally, increased costs to comply with, and other burdens imposed by, the Cyber Security Law and relevant regulations and policies that are applicable to the businesses of our suppliers, vendors and other service providers, as well as our customers, could adversely affect our business and results of operations.

Any additional new regulations or the amendment or modification of previously implemented regulations could require us and our manufacturing partners to change our business plans, increase our costs, or limit our ability to sell products and conduct activities in China, which could adversely affect our business and operating results.

The Chinese government and provincial and local governments also have provided, and continue to provide, various incentives to encourage the development of the semiconductor industry in China. Such incentives include tax rebates, reduced tax rates, favorable lending policies and other measures, some or all of which may be available to our manufacturing partners and to us with respect to our facilities in China. Any of these incentives could be reduced or eliminated by governmental authorities at any time. Any such reduction or elimination of incentives currently provided to us and our manufacturing partners could adversely affect our business and operating results.

There are inherent risks associated with the operation of our manufacturing and testing facilities in China, which could increase product costs or cause a delay in product shipments.

We have manufacturing and testing facilities in China. We face the following risks, among others, with respect to our operations in China:

- inability to hire and maintain a qualified workforce;
- inability to maintain appropriate and acceptable manufacturing controls; and
- higher than anticipated overhead and other costs of operation.

If we are unable to maintain our facilities in China at fully operational status with qualified workers, appropriate manufacturing controls and reasonable cost levels, we may incur higher costs than our current expense levels, which would affect our gross margins. In addition, if capacity restraints result in significant delays in product shipments, our business and results of operations would be adversely affected.

The average selling prices of products in our markets have historically decreased over time and could do so in the future, which could harm our revenue and gross profits.

Average selling prices of semiconductor products in the markets we serve have historically decreased over time. Our gross profits and financial results will suffer if we are unable to offset any reductions in our average selling prices by reducing our costs, developing new or enhanced products on a timely basis with higher selling prices or gross profits, or increasing our sales volumes. Additionally, because we do not operate our own wafer manufacturing or assembly facilities, we may not be able to reduce our costs as rapidly as companies that operate their own facilities, and our costs may even increase, which could also reduce our profit margins.

Because of the lengthy sales cycles for our products and the fixed nature of a significant portion of our expenses, we may incur substantial expenses before we earn associated revenue and may not ultimately achieve our forecasted sales for our products.

The introduction of new products presents significant business challenges because product development plans and expenditures may be made up to two years or more in advance of any sales. It generally takes us up to 12 months or more to design and manufacture a new product prototype. Only after we have a prototype do we introduce the product to the market and begin selling efforts in an attempt to achieve design wins. This sales process requires us to expend significant sales and marketing resources without any assurance of success. Volume production of products that use our ICs, if any, may not be achieved for an additional period of time after an initial sale. Sales cycles for our products are lengthy for a number of reasons, including:

- our customers usually complete an in-depth technical evaluation of our products before they place a purchase order;
- the commercial adoption of our products by OEMs and ODMs is typically limited during the initial release of their product to evaluate product performance and consumer demand;
- our products must be designed into our customers' products or systems; and
- the development and commercial introduction of our customers' products incorporating new technologies are frequently delayed.

As a result of our lengthy sales cycles, we may incur substantial expenses before we earn associated revenue because a significant portion of our operating expenses is relatively fixed and based on expected revenue. The lengthy sales cycles of our products also make forecasting the volume and timing of orders difficult. In addition, the delays inherent in lengthy sales cycles raise additional risks that customers may cancel or change their orders. Our sales are made by purchase orders. Because industry practice allows customers to reschedule or cancel orders on relatively short notice, backlog is not always a good indicator of our future sales. If customer cancellations or product changes occur, we could lose anticipated sales and not have sufficient time to reduce our inventory and operating expenses.

Our success depends on our investment of significant resources in research and development. We may have to invest more resources in research and development than anticipated, which could increase our operating expenses and negatively impact our operating results.

Our success depends on us investing significant amounts of resources into research and development. We expect to have to continue to invest heavily in research and development in the future in order to continue to innovate and introduce new products in a timely manner and increase our revenue and profitability. If we have to invest more resources in research and development than we anticipate, we could see an increase in our operating expenses which may negatively impact our operating results. Also, if we are unable to properly manage and effectively utilize our research and development resources, we could see material adverse effects on our business, financial condition and operating results.

In addition, if new competitors, technological advances by existing competitors, our entry into new markets, or other competitive factors require us to invest significantly greater resources than anticipated in our research and development efforts, our operating expenses would increase. If we are required to invest significantly greater resources than anticipated in research and development efforts without a corresponding increase in revenue, our operating results could decline. Research and development expenses are likely to fluctuate from time to time to the extent we make periodic incremental investments in research and development and these investments may be independent of our level of revenue, which could negatively impact our financial results. In order to remain competitive, we anticipate that we will continue to devote substantial resources to research and development, and we expect these expenses to increase in absolute dollars in the foreseeable future due to the increased complexity and the greater number of products under development.

The loss of any of our key personnel or the failure to attract or retain specialized technical and management personnel could affect our operations or impair our ability to grow our business.

Our future success depends upon our ability to attract and retain highly qualified technical and managerial personnel. We are particularly dependent on the continued services of our key executives, including Michael Hsing, our President and Chief Executive Officer, who founded our company and developed our proprietary process technology. In addition, personnel with highly skilled analog and mixed-signal design engineering expertise are scarce and competition for personnel with these skills is intense. There can be no assurance that we will be able to retain existing key employees or that we will be successful in attracting, integrating or retaining other highly qualified personnel with critical capabilities in the future. If we are unable to retain the services of existing key employees or are unsuccessful in attracting new highly qualified employees quickly enough to meet the demands of our business, including design cycles, our business could be harmed. Furthermore, if we lose key personnel, the search for a qualified replacement and the transition could interrupt our operations as the search could take us longer than expected and divert management resources, and the newly hired employee could take longer than expected to integrate into the team.

If we fail to retain key employees in our sales, applications, finance and legal staff or to make continued improvements to our internal systems, particularly in the accounting and finance area, our business may suffer.

If we fail to continue to adequately staff our sales, applications, financial and legal staff, maintain or upgrade our business systems and maintain internal control that meet the demands of our business, our ability to operate effectively will suffer. The operation of our business also depends upon our ability to retain these employees, as these employees hold a significant amount of institutional knowledge about us and our products, and, if they were to terminate their employment, our sales and internal control over financial reporting could be adversely affected.

We intend to continue to expand our operations, which may strain our resources and increase our operating expenses.

We plan to continue to expand our domestic and foreign operations through internal growth, strategic relationships, and/or acquisitions. We expect that any such expansion will strain our systems and operational and financial controls. In addition, we are likely to incur significantly higher operating costs. To manage our growth effectively, we must continue to improve and expand our systems and controls, as well as hire experienced administrative and financial personnel. If we fail to do so, our growth will be limited. If we fail to effectively manage our planned expansion of operations, our business and operating results may be harmed.

We may not realize the anticipated benefits of any company or business that we acquire. In addition, acquisitions could result in diluting the ownership interests of our stockholders, reduce our cash balances, and cause us to incur debt or to assume contingent liabilities, which could adversely affect our business. We may also be the target of strategic transactions, which could divert our management's attention and otherwise disrupt our operations and adversely affect our business.

As a part of our business strategy, from time to time we review acquisition prospects that would complement our current product offerings, enhance our design capability or offer other competitive opportunities. As a result of completing acquisitions, we could use a significant portion of our available cash, cash equivalents and short-term investments, issue equity securities that would dilute current stockholders' percentage ownership, or incur substantial debt or contingent liabilities. Such actions could impact our operating results and the price of our common stock.

In addition, we may be unable to identify or complete prospective acquisitions for various reasons, including competition from other companies in the semiconductor industry, the valuation expectations of acquisition candidates and applicable antitrust laws or related regulations. If we are unable to identify and complete acquisitions, we may not be able to successfully expand our business and product offerings.

We cannot guarantee that any future acquisitions will improve our results of operations or that we will otherwise realize the anticipated benefits of any acquisitions. In addition, if we are unsuccessful in integrating any acquired company or business into our operations or if integration is more difficult than anticipated, we may experience disruptions that could harm our business and result in our failure to realize the anticipated benefits of the acquisitions. Some of the risks that may adversely affect our ability to integrate or realize any anticipated benefits from the acquired companies, businesses or assets include those associated with:

- unexpected losses of key employees or customers of the acquired companies or businesses;
- conforming the acquired company's standards, processes, procedures and controls with our operations;
- coordinating new product and process development;
- hiring additional management and other critical personnel;
- increasing the scope, geographic diversity and complexity of our operations;
- difficulties in consolidating facilities and transferring processes and know-how;
- difficulties in the assimilation of acquired operations, technologies or products;
- the risk of undisclosed liabilities of the acquired businesses and potential legal disputes with founders or stockholders of acquired companies;
- our inability to commercialize acquired technologies;
- the risk that the future business potential as projected is not realized and as a result, we may be required to take an impairment charge related to goodwill or acquired intangibles that would impact our profitability;
- difficulties in assessing the fair value of earn-out arrangements;
- diversion of management's attention from other business concerns; and
- adverse effects on existing business relationships with customers.

In addition, third parties may be interested in acquiring us. We will consider and discuss such transactions as we deem appropriate. Such potential transactions may divert the attention of management, and cause us to incur various costs and expenses in investigating and evaluating such transactions, whether or not they are consummated.

If we issue additional shares of stock in the future, it may have a dilutive effect on our stockholders.

We may issue additional shares of common stock in the future in order to raise additional capital to fund our global operations or in connection with an acquisition. We also issue RSUs to employees, which convert into shares of common stock upon vesting. Any issuance of our common stock may result in immediate dilution to our stockholders. In addition, the issuance of a significant amount of our common stock may result in additional regulatory requirements, such as stockholder approval.

We compete against many companies with substantially greater financial and other resources, and our market share may be reduced if we are unable to respond to our competitors effectively.

The analog and mixed-signal semiconductor industry is highly competitive, and we expect competitive pressures to continue. Our ability to compete effectively and to expand our business will depend on our ability to continue to recruit applications and design talent, our ability to introduce new products, and our ability to maintain the rate at which we introduce these new products. We compete with domestic and non-domestic semiconductor companies, many of which have substantially greater financial and other resources with which to pursue engineering, manufacturing, marketing, and distribution of their products. We are in direct and active competition, with respect to one or more of our product lines, with many manufacturers of such products, of varying size and financial strength. The number of our competitors has grown due to the expansion of the market segments in which we participate.

We cannot assure you that our products will continue to compete favorably, or that we will be successful in the face of increasing competition from new products and enhancements introduced by existing competitors or new companies entering this market, which would materially and adversely affect our results of operations and our financial condition.

If securities or industry analysts downgrade our stock or do not continue to publish research or reports about our business, our stock price and trading volume could decline.

The trading market for our common stock will depend, in part, on the research and reports that industry or securities analysts publish about us or our business. We do not have any control over these analysts. If one or more of the analysts who cover us downgrade our stock, our stock price would likely decline. If one or more of these analysts cease coverage of us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

Short positions in our stock could have a substantial impact on the trading price of our stock.

Historically, there have been “short” positions in our common stock. The anticipated downward pressure on our stock price due to actual or anticipated sales of our stock by some institutions or individuals who engage in short sales of our common stock could cause our stock price to decline. Such stock price decreases could encourage further short-sales that could place additional downward pressure on our stock price. This could lead to further increases in the existing short position in our common stock and cause volatility in our stock price. The volatility of our stock may cause the value of a stockholder’s investment to decline rapidly. Additionally, if our stock price declines, it may be more difficult for us to raise capital and may have other adverse effects on our business.

There can be no assurance that we will continue to declare cash dividends at all or in any particular amounts.

We have a dividend program approved by our Board of Directors, pursuant to which we intend to pay quarterly cash dividends on our common stock. The declaration of any future cash dividends is at the discretion of our Board of Directors and will depend on, among other things, our financial condition, results of operations, capital requirements, business conditions, and other factors that our Board of Directors may deem relevant, as well as a determination that cash dividends are in the best interests of our stockholders. Our dividend payments may change from time to time, and we cannot provide assurance that we will continue to declare dividends at all or in any particular amounts. A reduction in or elimination of our dividend payments could have a negative effect on the price of our common stock.

Our worldwide operations are subject to political, economic and health risks and natural disasters, which could have a material adverse effect on our business operations.

Our office in California, the production facilities of our third-party wafer suppliers, our IC testing and manufacturing facilities, a portion of our assembly and research and development activities, and certain other critical business operations are located in or near seismically active regions and are subject to periodic earthquakes. We do not maintain earthquake insurance and could be materially and adversely affected in the event of a major earthquake. Much of our revenue, as well as our manufacturers and assemblers, are concentrated in Asia, particularly in China. Such concentration increases the risk that other natural disasters, labor strikes, terrorism, war, political unrest, epidemics and pandemics, and/or health advisories could disrupt our operations. For example, the COVID-19 pandemic has resulted in significant disruptions in business operations and other global economic activities. Any of these events may disrupt our ability to staff our business adequately, could generally disrupt our operations, and specifically, any prolonged health threat and other risks from the COVID-19 pandemic globally could have a material adverse impact on our business and results of operations.

In addition, we rely heavily on our internal information and communications systems and on systems or support services from third parties to manage our operations efficiently and effectively. Any of these are subject to failure due to a natural disaster or other disruptions. System-wide or local failures that affect our information processing could have material adverse effects on our business, financial condition, results of operations and cash flows.

ITEM 6. EXHIBITS

Exhibit No.	Description
10.1	Forms of award agreements under the Monolithic Power Systems, Inc. Amended and Restated 2014 Equity Incentive Plan.
31.1	Certification of Chief Executive Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Chief Financial Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	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.INS	Inline XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)

* 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 filings 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.

MONOLITHIC POWER SYSTEMS, INC

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

MONOLITHIC POWER SYSTEMS, INC.

Dated: November 6, 2020

/s/ T. Bernie Blegen

T. Bernie Blegen

Chief Financial Officer

(Duly Authorized Officer and Principal Financial and
Accounting Officer)

MONOLITHIC POWER SYSTEMS, INC.
 RESTRICTED STOCK UNIT GRANT NOTICE
 AMENDED AND RESTATED 2014 EQUITY INCENTIVE PLAN

Monolithic Power Systems, Inc. (the “**Company**”) hereby awards to Participant the number of restricted stock units (“**RSUs**”) set forth below (the “**Award**”). The Award is subject to all of the terms and conditions as set forth in this Restricted Stock Unit Grant Notice (the “**Notice**”), the Amended and Restated 2014 Equity Incentive Plan (the “**Plan**”) and the Restricted Stock Unit Agreement (the “**Award Agreement**”), both of which are attached hereto and incorporated in their entirety. Capitalized terms not explicitly defined in this Notice but defined in the Plan or the Award Agreement will have the same definitions as in the Plan or the Award Agreement. In the event of any conflict between the terms of the Award and the Plan, the terms of the Plan will control.

Participant:
 Grant Number:
 Date of Grant:
 Vesting Commencement Date:
 Number of RSUs:

Vesting Schedule: The Award vests as to [fraction] of the RSUs (rounded down to the nearest whole RSU) [# of months] months after the Vesting Commencement Date, with the balance vesting as to [fraction] of the RSUs (rounded down to the nearest whole RSU) every [# months] thereafter, subject to Participant’s Continuous Service with the Company through each such vesting date. Each installment of RSUs that vest hereunder is a “separate payment” for purposes of Treasury Regulations Section 1.409A-2(b)(2) to the extent applicable.

Issuance Schedule: Subject to any change on a Capitalization Adjustment, one share of Common Stock will be issued for each RSU that vests at the time set forth in the Award Agreement.

Additional Terms/Acknowledgements: Participant acknowledges receipt of, and understands and agrees to, this Notice, the Award Agreement, the Plan and the prospectus for the Plan. As of the Date of Grant, this Notice, the Award Agreement and the Plan set forth the entire understanding between Participant and the Company regarding the Award and supersede all prior oral and written agreements on the terms of the Award, with the exception, if applicable, of (i) the written employment agreement or offer letter agreement entered into between the Company and Participant specifying the terms that should govern this specific Award, or, if applicable instead, the severance benefit plan then in effect and applicable to Participant and (ii) any compensation recovery policy that is adopted by the Company or is otherwise required by applicable law. By accepting this Award, Participant consents to receive Plan documents by electronic delivery and to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

* * *

MONOLITHIC POWER SYSTEMS, INC.

By: _____
Signature

Title: _____

Date: _____

PARTICIPANT:

Signature

Date: _____

ALSO PROVIDED: Award Agreement, Amended and Restated 2014 Equity Incentive Plan, Prospectus

MONOLITHIC POWER SYSTEMS, INC.
AMENDED AND RESTATED 2014 EQUITY INCENTIVE PLAN

RESTRICTED STOCK UNIT AGREEMENT

Monolithic Power Systems, Inc. (the “**Company**”) has awarded you a Restricted Stock Unit Award (the “**Award**”) that is subject to its Amended and Restated 2014 Equity Incentive Plan (the “**Plan**”), the Restricted Stock Unit Grant Notice (the “**Grant Notice**”) and this Restricted Stock Unit Agreement (the “**Agreement**”), for the number of Restricted Stock Units indicated in the Grant Notice. Capitalized terms not explicitly defined in this Agreement or in the Grant Notice but defined in the Plan will have the same definitions as in the Plan. In the event of any conflict between the terms in this Agreement and the Plan, the terms of the Plan will control.

1. **GRANT OF THE AWARD.** The Award represents your right to be issued on a future date one share of Common Stock for each Restricted Stock Unit that vests.
2. **VESTING.** Your Restricted Stock Units will vest as provided in the Grant Notice. Vesting will cease on the termination of your Continuous Service. Any Restricted Stock Units that have not yet vested will be forfeited on the termination of your Continuous Service.
3. **ADJUSTMENTS TO NUMBER OF RSUs & SHARES OF COMMON STOCK.**
 - (a) The Restricted Stock Units subject to your Award will be adjusted for Capitalization Adjustments, as provided in the Plan.
 - (b) Any additional Restricted Stock Units and any shares, cash or other property (including Dividend Equivalents) that become subject to the Award will be subject, in a manner determined by the Board, to the terms of the Award, including the same forfeiture restrictions, restrictions on transferability, and time and manner of delivery as applicable to the other Restricted Stock Units and shares covered by your Award.
 - (c) You have no rights to be issued any fractional share of Common Stock or cash in lieu of such fractional share under this Award. Any fraction of a share will be rounded down to the nearest whole share.
 - (d) Each Restricted Stock Unit has associated with it one Dividend Equivalent. If and when a Restricted Stock Unit vests, and the underlying Share is issued, the cash payable under this Dividend Equivalent award will become vested and payable on the date the related shares become vested. Payment will be made shortly after vesting, and, in all cases, no later than the date that is the 15th day of the third calendar month of the applicable year following the year in which the Dividend Equivalent is no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d). If necessary to comply with applicable tax laws, the cash payment will be paid no later than December 31 of the calendar year in which the Dividend Equivalent is no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d). If your Restricted Stock Units never vest or are otherwise forfeited, your corresponding Dividend Equivalents will immediately expire on the expiration or other forfeiture of the related Restricted Stock Units – and you will not be entitled to any payout of regular cash dividends in respect of those forfeited Restricted Stock Units. Your Dividend Equivalents will immediately expire on the issuance of the underlying Shares subject to the Restricted Stock Units that have vested – that is, no additional regular cash dividends that are declared or paid after that date will accrue for those newly vested shares. Instead, your rights to receive any regular cash dividends will be solely as a Company stockholder. Your rights on the Dividend Equivalents are subject to all of the same terms and conditions as apply to your underlying Restricted Stock Units in respect of which these Dividend Equivalents are granted.

4. SECURITIES LAW COMPLIANCE. You will not be issued any Common Stock underlying the Restricted Stock Units or other shares with respect to your Restricted Stock Units unless either (i) the shares are registered under the Securities Act, or (ii) the Company has determined that such issuance would be exempt from the registration requirements of the Securities Act. Your Award also must comply with other applicable laws and regulations governing the Award, and you will not receive shares underlying your Restricted Stock Units if the Company determines that such receipt would not be in material compliance with such laws and regulations.

5. TRANSFERABILITY. Prior to the time that shares of Common Stock have been delivered to you, you may not transfer, pledge, sell or otherwise dispose of any portion of the Restricted Stock Units or the shares in respect of your Restricted Stock Units. For example, you may not use shares that may be issued in respect of your Restricted Stock Units as security for a loan, nor may you transfer, pledge, sell or otherwise dispose of such shares. This restriction on transfer will lapse on delivery to you of shares in respect of your vested Restricted Stock Units.

(a) **Death.** Your Restricted Stock Units are not transferable other than by will and by the laws of descent and distribution. At your death, your executor or administrator of your estate will be entitled to receive, on behalf of your estate, Common Stock or other consideration under this Award.

(b) **Domestic Relations Orders.** If you receive written permission from the Board or its duly authorized designee, and provided that you and the designated transferee enter into transfer and other agreements required by the Company, you may transfer your right to receive the distribution of Common Stock or other consideration under your Restricted Stock Units, in accordance with a domestic relations order or official marital settlement agreement that contains the information required by the Company to effectuate the transfer. You are encouraged to discuss with the Company's General Counsel the proposed terms of any such transfer prior to finalizing the domestic relations order or marital settlement agreement to verify that you may make such transfer, and if so, to help ensure the required information is contained within the domestic relations order or marital settlement agreement. The Company is not obligated to allow you to transfer your Award in connection with your domestic relations order or marital settlement agreement.

6. DATE OF ISSUANCE.

(a) The issuance of shares in respect of the Restricted Stock Units is intended to comply with Treasury Regulations Section 1.409A-1(b)(4) and will be construed and administered in such a manner. As a result, the shares will be issued no later than the date that is the 15th day of the third calendar month of the applicable year following the year in which the shares of Common Stock under this Award are no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d).

(b) If the Company determines that it is necessary to comply with applicable tax laws, the shares will be issued no later than December 31 of the calendar year in which the shares are no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d).

7. DIVIDENDS. You will receive no benefit or adjustment to your Restricted Stock Units with respect to any cash dividend, stock dividend or other distribution except as provided in the Plan with respect to a Capitalization Adjustment. Please see Section 3(d) regarding Dividend Equivalents.

8. RESTRICTIVE LEGENDS. To the extent applicable, the Common Stock issued with respect to your Restricted Stock Units will be endorsed with appropriate legends determined by the Company.

9. AWARD NOT A SERVICE CONTRACT. Your Continuous Service is not for any specified term and may be terminated by you or by the Company or an Affiliate at any time, for any reason, with or without cause and with or without notice. Nothing in this Agreement (including, but not limited to, the vesting of your Restricted Stock Units or the issuance of the shares subject to your Restricted Stock Units), the Plan or any covenant of good faith and fair dealing that may be found implicit in this Agreement or the Plan shall: (a) confer on you any right to continue in the employ or service of, or affiliation with, the Company or an Affiliate; (b) constitute any promise or commitment by the Company or an Affiliate regarding the fact or nature of future positions, future work assignments, future compensation or any other term or condition of employment or affiliation; (c) confer any right or benefit under this Agreement or the Plan unless such right or benefit has specifically accrued under the terms of this Agreement or Plan; or (d) deprive the Company of the right to terminate you at will and without regard to any future vesting opportunity that you may have.

10. WITHHOLDING OBLIGATIONS.

(a) On each vesting date, and on or before the time you receive a distribution of the shares underlying your Restricted Stock Units (or payments in respect of your Dividend Equivalents), and at any other time as reasonably requested by the Company in accordance with applicable tax laws, you agree to make adequate provision for any sums required to satisfy the federal, state, local and foreign tax withholding obligations of the Company or any Affiliate that arise in connection with your Award (the “**Withholding Taxes**”). Specifically, the Company or an Affiliate may, in its sole discretion, satisfy all or any portion of the Withholding Taxes relating to your Award by any of the following means or by a combination of such means: (i) withholding from any compensation otherwise payable to you by the Company or an Affiliate; (ii) causing you to tender a cash payment (which may be in the form of a check, electronic wire transfer or other method permitted by the Company); (iii) permitting or requiring you to enter into a “same day sale” commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority (a “**FINRA Dealer**”) whereby you irrevocably elect to sell a portion of the shares to be delivered in connection with your Restricted Stock Units to satisfy the Withholding Taxes and whereby the FINRA Dealer irrevocably commits to forward the proceeds necessary to satisfy the Withholding Taxes directly to the Company and/or its Affiliates; or (iv) subject to the approval of the independent members of the Board, withholding shares of Common Stock from the shares of Common Stock issued or otherwise issuable to you in connection with your Restricted Stock Units with a fair market value (measured as of the date shares of Common Stock are issued to you) equal to the amount of such Withholding Taxes.

(b) Unless the Withholding Taxes of the Company and/or any Affiliate are satisfied, the Company will have no obligation to deliver to you any Common Stock (or payments in respect of your Dividend Equivalents).

(c) If the Company’s obligation to withhold arises prior to the delivery to you of Common Stock or it is determined after the delivery of Common Stock to you that the amount of the Company’s withholding obligation was greater than the amount withheld by the Company, you agree to indemnify and hold the Company harmless from any failure by the Company to withhold the proper amount.

11. UNSECURED OBLIGATION. Your Award is unfunded, and as a holder of vested Restricted Stock Units, you will be considered an unsecured creditor of the Company with respect to the Company’s obligation, if any, to issue shares or other property pursuant to this Agreement. You will not have voting or any other rights as a stockholder of the Company with respect to the shares to be issued pursuant to this Agreement until such shares are issued to you. On such issuance, you will obtain full voting and other rights as a stockholder of the Company. Nothing contained in this Agreement, and no action taken pursuant to its provisions, will create or be construed to create a trust of any kind or a fiduciary relationship between you and the Company or any other person.

12. NOTICES. Any notices provided for in this Agreement or the Plan will be given in writing (including electronically) and will be deemed effectively given on receipt or, in the case of notices delivered by the Company to you, five days after deposit in the U.S. mail, postage prepaid, addressed to you at the last address you provided to the Company. The Company may, in its sole discretion, decide to deliver any documents related to participation in the Plan and this Award by electronic means or to request your consent to participate in the Plan by electronic means. By accepting this Award, you consent to receive such documents by electronic delivery and to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

13. MISCELLANEOUS.

(a) The rights and obligations of the Company under your Award will be transferable to any one or more persons or entities, and all covenants and agreements hereunder will inure to the benefit of, and be enforceable by the Company's successors and assigns.

(b) You agree on request to execute any further documents or instruments necessary or desirable in the sole determination of the Company to carry out the purposes or intent of your Award.

(c) You acknowledge and agree that you have reviewed your Award in its entirety, have had an opportunity to obtain the advice of counsel prior to executing and accepting your Award, and fully understand all provisions of your Award.

(d) This Agreement will be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.

(e) All obligations of the Company under the Plan and this Agreement will be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase, merger, consolidation, or otherwise, of all or substantially all of the business and/or assets of the Company.

14. Governing Plan Document. Your Award is subject to all the provisions of the Plan, the provisions of which are hereby made a part of your Award, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. Your Award (and any compensation paid or shares issued under your Award) is subject to recoupment in accordance with the Dodd-Frank Wall Street Reform and Consumer Protection Act and any implementing regulations thereunder, any clawback policy adopted by the Company and any compensation recovery policy otherwise required by applicable law. No recovery of compensation under such a clawback policy will be an event giving rise to a right to voluntarily terminate employment on a resignation for "good reason," or for a "constructive termination" or any similar term under any plan of or agreement with the Company. You hereby acknowledge receipt or the right to receive a document providing the information required by Rule 428(b)(1) promulgated under the U.S. Securities Act, which includes the Plan prospectus. In addition, you acknowledge receipt of the Company's policy permitting officers and directors to sell shares only during certain "window" periods and the Company's insider trading policy, in effect from time to time.

15. Severability. If all or any part of this Agreement or the Plan is declared by any court or governmental authority to be unlawful or invalid, such unlawfulness or invalidity will not invalidate any portion of this Agreement or the Plan not declared to be unlawful or invalid. Any Section of this Agreement (or part of such a Section) so declared to be unlawful or invalid shall, if possible, be construed in a manner which will give effect to the terms of such Section or part of a Section to the fullest extent possible while remaining lawful and valid.

16. EFFECT ON OTHER EMPLOYEE BENEFIT PLANS. The value of the Award subject to this Agreement will not be included as compensation, earnings, salaries, or other similar terms used when calculating the Employee's benefits under any employee benefit plan sponsored by the Company or any Affiliate, except as such plan otherwise expressly provides. The Company expressly reserves its rights to amend, modify, or terminate any of the Company's or any Affiliate's employee benefit plans.

17. AMENDMENT. Any amendment to this Agreement must be in writing, signed by a duly authorized representative of the Company. The Board reserves the right to amend this Agreement in any way it may deem necessary or advisable to carry out the purpose of the grant as a result of any change in applicable laws or regulations or any future law, regulation, interpretation, ruling, or judicial decision.

18. COMPLIANCE WITH SECTION 409A OF THE CODE. To the extent applicable, this Award is intended to comply with the "short-term deferral" rule set forth in Treasury Regulation Section 1.409A-1(b)(4). However, if this Award fails to satisfy the requirements of the short-term deferral rule and is otherwise not exempt from, and therefore deemed to be deferred compensation subject to, Section 409A of the Code, and if you are a "Specified Employee" (within the meaning set forth Section 409A(a)(2)(B)(i) of the Code) as of the date of your separation from service (within the meaning of Treasury Regulation Section 1.409A-1(h)), then the issuance of any shares that would otherwise be made on the date of the separation from service or within the first six months thereafter will not be made on the originally scheduled dates and will instead be issued in a lump sum on the date that is six months and one day after the date of the separation from service, with the balance of the shares issued thereafter in accordance with the original vesting and issuance schedule set forth above, but if and only if such delay in the issuance of the shares is necessary to avoid the imposition of taxation on you in respect of the shares under Section 409A of the Code. Each installment of shares that vests is a "separate payment" for purposes of Treasury Regulation Section 1.409A-2(b)(2).

19. NO OBLIGATION TO MINIMIZE TAXES. The Company has no duty or obligation to minimize the tax consequences to you of this Award and will not be liable to you for any adverse tax consequences to you arising in connection with this Award. You are hereby advised to consult with your own personal tax, financial and/or legal advisors regarding the tax consequences of this Award and by signing the Grant Notice, you have agreed that you have done so or knowingly and voluntarily declined to do so.

20. DATA PRIVACY. The Company respects your privacy. In order to administer your Award, as noted above, the Company collects and uses certain personal information about you, including your prior equity grant information where applicable. If you are a California resident, you should refer to the Company's California Consumer Privacy Act Notice for more information about the personal information the Company collects about you and the purposes for which the Company will use such data.

MONOLITHIC POWER SYSTEMS, INC.
PERFORMANCE STOCK UNIT GRANT NOTICE
AMENDED AND RESTATED 2014 EQUITY INCENTIVE PLAN

Monolithic Power Systems, Inc. (the “**Company**”) hereby awards to Participant the number of performance-based Restricted Stock Units (“**PSUs**” or “**Performance Stock Units**”) set forth below (the “**Award**”). The Award is subject to all of the terms and conditions as set forth in this Performance Stock Unit Grant Notice (the “**Notice**”), the Amended and Restated 2014 Equity Incentive Plan (the “**Plan**”) and the Performance Stock Unit Agreement (the “**Award Agreement**”), both of which are attached hereto and incorporated in their entirety. Capitalized terms not explicitly defined in this Notice but defined in the Plan or the Award Agreement will have the same definitions as in the Plan or the Award Agreement. In the event of any conflict between the terms of the Award and the Plan, the terms of the Plan will control.

Name:
Grant Number:
Date of Grant:
Target Number of Performance Stock Units:
Maximum Number of Performance Stock Units:
Purchase Price per Share:
Vesting Commencement Date:
Vesting Schedule:
Last Eligible Performance Date:

Issuance Schedule: Subject to any change on a Capitalization Adjustment and Participant’s payment of the Purchase Price per Share within two months following the applicable vesting date, one share of Common Stock will be issued for each PSU that vests at the time set forth in the Award Agreement. If payment is required and Participant does not pay the Purchase Price per Share for each vested PSU within two months after the vesting date, Participant’s rights to those vested PSUs, and the underlying shares of Common Stock and related Dividend Equivalents, will be forfeited on the two month anniversary of such vesting date.

Additional Terms/Acknowledgements: Participant acknowledges receipt of, and understands and agrees to, this Notice, the Award Agreement, the Plan and the prospectus for the Plan. As of the Date of Grant, this Notice, the Award Agreement and the Plan set forth the entire understanding between Participant and the Company regarding the Award and supersede all prior oral and written agreements on the terms of the Award, with the exception, if applicable, of (i) the written employment agreement or offer letter agreement entered into between the Company and Participant specifying the terms that should govern this specific Award, or, if applicable instead, the severance benefit plan then in effect and applicable to Participant and (ii) any compensation recovery policy that is adopted by the Company or is otherwise required by applicable law. By accepting this Award, Participant consents to receive Plan documents by electronic delivery and to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

MONOLITHIC POWER SYSTEMS, INC.

PARTICIPANT:

By: _____
Title: _____

Signature: _____
Date: _____

ALSO PROVIDED: Award Agreement, Amended and Restated 2014 Equity Incentive Plan, Prospectus

MONOLITHIC POWER SYSTEMS, INC.
AMENDED AND RESTATED 2014 EQUITY INCENTIVE PLAN

PERFORMANCE STOCK UNIT AGREEMENT

Monolithic Power Systems, Inc. (the “*Company*”) has awarded you a Performance Stock Unit Award (the “*Award*”) that is subject to its Amended and Restated 2014 Equity Incentive Plan (the “*Plan*”), the Performance Stock Unit Grant Notice (the “*Grant Notice*”) and this Performance Stock Unit Agreement (the “*Agreement*”), for the number of Performance Stock Units indicated in the Grant Notice. Capitalized terms not explicitly defined in this Agreement or in the Grant Notice but defined in the Plan will have the same definitions as in the Plan. In the event of any conflict between the terms in this Agreement and the Plan, the terms of the Plan will control.

1. GRANT OF THE AWARD. The Award represents your right to be issued on a future date one share of Common Stock for each Performance Stock Unit that vests, provided that you pay the Purchase Price per Share for each vested Performance Stock Unit within two months after the applicable vesting date. If payment is required and you do not pay the Purchase Price per Share for the vested Performance Stock Unit within two months after the applicable vesting date, your rights to that vested Performance Stock Unit, and the underlying share of Common Stock and the compensation payable in respect of the related Dividend Equivalents, will be forfeited on the two month anniversary of the vesting date at no cost to the Company, and you will have no further right to receive the shares of Common Stock or the payments in respect of Dividend Equivalents.

2. VESTING. Your Performance Stock Units will vest as provided in the Grant Notice. Vesting will cease on the termination of your Continuous Service. Any Performance Stock Units (including Dividend Equivalents) that have not yet vested will be forfeited on the termination of your Continuous Service.

3. ADJUSTMENTS TO NUMBER OF PSUs & SHARES OF COMMON STOCK.

(a) The Performance Stock Units subject to your Award will be adjusted for Capitalization Adjustments, as provided in the Plan.

(b) Any additional Performance Stock Units and any shares, cash or other property (including Dividend Equivalents) that become subject to the Award will be subject, in a manner determined by the Board, to the terms of the Award, including the same forfeiture restrictions, restrictions on transferability, and time and manner of delivery as applicable to the other Performance Stock Units and shares covered by your Award.

(c) You have no rights to be issued any fractional share of Common Stock or cash in lieu of such fractional share under this Award. Any fraction of a share will be rounded down to the nearest whole share.

(d) Each Performance Stock Unit has associated with it one Dividend Equivalent. If and when a Performance Stock Unit vests, the cash payable under this Dividend Equivalent award will become vested. Provided you pay any applicable Purchase Price per Share within two months after the applicable vesting date for the Performance Stock Units, payment of any vested Dividend Equivalents will be made shortly after vesting, and, in all cases, no later than the date that is the 15th day of the third calendar month of the applicable year following the year in which the Dividend Equivalent is no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d). If necessary to comply with applicable tax laws, the cash payment will be paid no later than December 31 of the calendar year in which the Dividend Equivalent is no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d). If your Performance Stock Units never vest or are otherwise forfeited (including due to failure to timely pay any applicable Purchase Price per Share), your corresponding Dividend Equivalents will immediately expire on the expiration or other forfeiture of the related Performance Stock Units – and you will not be entitled to any payout of regular cash dividends in respect of those forfeited Performance Stock Units. Your Dividend Equivalents will immediately expire on the issuance of the underlying shares subject to the Performance Stock Units that have vested – that is, no additional regular cash dividends that are declared or paid after that date will accrue for those newly vested shares. Instead, your rights to receive any regular cash dividends will be solely as a Company stockholder. Your rights on the Dividend Equivalents are subject to all of the same terms and conditions as apply to your underlying Performance Stock Units in respect of which these Dividend Equivalents are granted.

4. METHOD OF PAYMENT. In order to be issued the shares of Common Stock and related Dividend Equivalents subject to your vested Performance Stock Units, you must pay any applicable aggregate Purchase Price per Share for your vested Performance Stock Units within two months following the vesting date for such Performance Stock Units. You may pay any applicable Purchase Price per Share through one or more of the following:

(a) Cash, check, bank draft, electronic funds or wire transfer, or money order payable to the Company.

(b) Offset against the value of cash due to you on the vesting of your Dividend Equivalents.

(c) Provided that at the vesting date the Common Stock is publicly traded, using a program developed under Regulation T, as provided by the Federal Reserve Board that, prior to the issuance of Common Stock, results in either the receipt of cash (or check) by the Company or the receipt of irrevocable instructions to pay any applicable aggregate Purchase Price per Share to the Company from the sales proceeds. This manner of payment is also known as a “broker-assisted exercise,” “same day sale” or “sell to cover.”

(d) If and only if permitted by the Board at the time the Purchase Price per Share is due and payable (and, if you are a reporting person subject to Section 16 of the Exchange Act, only if mandatorily required by authorization in advance by the Board or the Committee), by a net settlement arrangement pursuant to which the Company will reduce the number of shares of Common Stock issuable upon vesting by the largest whole number of shares with a Fair Market Value that does not exceed the aggregate Purchase Price per Share. You must submit an additional payment to the extent of any remaining balance of the aggregate Purchase Price per Share not satisfied by such reduction in the number of whole shares to be issued.

5. SECURITIES LAW COMPLIANCE. You will not be issued any Common Stock underlying the Performance Stock Units or other shares with respect to your Performance Stock Units (or payments in respect of your Dividend Equivalents) unless either (a) the shares are registered under the Securities Act, or (b) the Company has determined that such issuance would be exempt from the registration requirements of the Securities Act. Your Award also must comply with other applicable laws and regulations governing the Award, and you will not receive shares underlying your Performance Stock Units (or payments in respect of your Dividend Equivalents) if the Company determines that such receipt would not be in material compliance with such laws and regulations.

6. TRANSFERABILITY. Prior to the time that shares of Common Stock have been delivered to you, you may not transfer, pledge, sell or otherwise dispose of any portion of the Performance Stock Units or the shares in respect of your Performance Stock Units. For example, you may not use shares that may be issued in respect of your Performance Stock Units as security for a loan, nor may you transfer, pledge, sell or otherwise dispose of such shares. This restriction on transfer will lapse on delivery to you of shares in respect of your vested Performance Stock Units.

(a) **Death.** Your Performance Stock Units are not transferable other than by will and by the laws of descent and distribution. At your death, your executor or administrator of your estate will be entitled to receive, on behalf of your estate, Common Stock or other consideration under this Award.

(b) **Domestic Relations Orders.** If you receive written permission from the Board or its duly authorized designee, and provided that you and the designated transferee enter into transfer and other agreements required by the Company, you may transfer your right to receive the distribution of Common Stock or other consideration under your Performance Stock Units, in accordance with a domestic relations order or official marital settlement agreement that contains the information required by the Company to effectuate the transfer. You are encouraged to discuss with the Company's General Counsel the proposed terms of any such transfer prior to finalizing the domestic relations order or marital settlement agreement to verify that you may make such transfer, and if so, to help ensure the required information is contained within the domestic relations order or marital settlement agreement. The Company is not obligated to allow you to transfer your Award in connection with your domestic relations order or marital settlement agreement.

7. DATE OF ISSUANCE.

(a) The issuance of shares in respect of vested Performance Stock Units (and payments in respect of your Dividend Equivalents) is intended to comply with Treasury Regulations Section 1.409A-1(b)(4) and will be construed and administered in such a manner. As a result, subject to your payment of any applicable Purchase Price per Share, the shares (and payments) will be issued no later than the date that is the 15th day of the third calendar month of the applicable year following the year in which the shares of Common Stock under this Award are no longer subject to a "substantial risk of forfeiture" within the meaning of Treasury Regulations Section 1.409A-1(d).

(b) If the Company determines that it is necessary to comply with applicable tax laws, the shares (and payments) will be issued, subject to your payment of any applicable Purchase Price per Share, no later than December 31 of the calendar year in which the shares are no longer subject to a “substantial risk of forfeiture” within the meaning of Treasury Regulations Section 1.409A-1(d).

8. DIVIDENDS. You will receive no benefit or adjustment to your Performance Stock Units with respect to any cash dividend, stock dividend or other distribution except as provided in the Plan with respect to a Capitalization Adjustment. Please see Section 3(d) regarding Dividend Equivalents.

9. Restrictive Legends. The Common Stock issued with respect to your Performance Stock Units will be endorsed with appropriate legends determined by the Company.

10. Award not a Service Contract. Your Continuous Service is not for any specified term and may be terminated by you or by the Company or an Affiliate at any time, for any reason, with or without cause and with or without notice. Nothing in this Agreement (including, but not limited to, the vesting of your Performance Stock Units or the issuance of the shares subject to your Performance Stock Units or payments in respect of your Dividend Equivalents), the Plan or any covenant of good faith and fair dealing that may be found implicit in this Agreement or the Plan shall: (a) confer on you any right to continue in the employ or service of, or affiliation with, the Company or an Affiliate; (b) constitute any promise or commitment by the Company or an Affiliate regarding the fact or nature of future positions, future work assignments, future compensation or any other term or condition of employment or affiliation; (c) confer any right or benefit under this Agreement or the Plan unless such right or benefit has specifically accrued under the terms of this Agreement or Plan; or (d) deprive the Company of the right to terminate you at will and without regard to any future vesting opportunity that you may have.

11. WITHHOLDING OBLIGATIONS.

(a) On each vesting date, and on or before the time you receive a distribution of the shares underlying your Performance Stock Units (or payments in respect of your Dividend Equivalents), and at any other time as reasonably requested by the Company in accordance with applicable tax laws, you agree to make adequate provision for any sums required to satisfy the federal, state, local and foreign tax withholding obligations of the Company or any Affiliate that arise in connection with your Award (the “**Withholding Taxes**”). Specifically, the Company or an Affiliate may, in its sole discretion, satisfy all or any portion of the Withholding Taxes relating to your Award by any of the following means or by a combination of such means: (i) withholding from any compensation otherwise payable to you by the Company or an Affiliate; (ii) causing you to tender a cash payment (which may be in the form of a check, electronic wire transfer or other method permitted by the Company); (iii) permitting or requiring you to enter into a “same day sale” commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority (a “**FINRA Dealer**”) whereby you irrevocably elect to sell a portion of the shares to be delivered in connection with your Performance Stock Units to satisfy the Withholding Taxes and whereby the FINRA Dealer irrevocably commits to forward the proceeds necessary to satisfy the Withholding Taxes directly to the Company and/or its Affiliates; or (iv) subject to the approval of the independent members of the Board, withholding shares of Common Stock from the shares of Common Stock issued or otherwise issuable to you in connection with your Performance Stock Units with a fair market value (measured as of the date shares of Common Stock are issued to you) equal to the amount of such Withholding Taxes.

(b) Unless the Withholding Taxes of the Company and/or any Affiliate are satisfied, the Company will have no obligation to deliver to you any Common Stock (or payments in respect of your Dividend Equivalents).

(c) If the Company's obligation to withhold arises prior to the delivery to you of Common Stock or it is determined after the delivery of Common Stock to you that the amount of the Company's withholding obligation was greater than the amount withheld by the Company, you agree to indemnify and hold the Company harmless from any failure by the Company to withhold the proper amount.

12. UNSECURED OBLIGATION. Your Award is unfunded, and as a holder of vested Performance Stock Units (and Dividend Equivalents), you will be considered an unsecured creditor of the Company with respect to the Company's obligation, if any, to issue shares or other property or compensation pursuant to this Agreement. You will not have voting or any other rights as a stockholder of the Company with respect to the shares to be issued pursuant to this Agreement until such shares are issued to you. On such issuance, you will obtain full voting and other rights as a stockholder of the Company. Nothing contained in this Agreement, and no action taken pursuant to its provisions, will create or be construed to create a trust of any kind or a fiduciary relationship between you and the Company or any other person.

13. NOTICES. Any notices provided for in this Agreement or the Plan will be given in writing (including electronically) and will be deemed effectively given on receipt or, in the case of notices delivered by the Company to you, five days after deposit in the U.S. mail, postage prepaid, addressed to you at the last address you provided to the Company. The Company may, in its sole discretion, decide to deliver any documents related to participation in the Plan and this Award by electronic means or to request your consent to participate in the Plan by electronic means. By accepting this Award, you consent to receive such documents by electronic delivery and to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company.

14. MISCELLANEOUS.

(a) The rights and obligations of the Company under your Award will be transferable to any one or more persons or entities, and all covenants and agreements hereunder will inure to the benefit of, and be enforceable by the Company's successors and assigns.

(b) You agree on request to execute any further documents or instruments necessary or desirable in the sole determination of the Company to carry out the purposes or intent of your Award.

(c) You acknowledge and agree that you have reviewed your Award in its entirety, have had an opportunity to obtain the advice of counsel prior to executing and accepting your Award, and fully understand all provisions of your Award.

(d) This Agreement will be subject to all applicable laws, rules, and regulations, and to such approvals by any governmental agencies or national securities exchanges as may be required.

(e) All obligations of the Company under the Plan and this Agreement will be binding on any successor to the Company, whether the existence of such successor is the result of a direct or indirect purchase, merger, consolidation, or otherwise, of all or substantially all of the business and/or assets of the Company.

15. GOVERNING PLAN DOCUMENT. Your Award is subject to all the provisions of the Plan, the provisions of which are hereby made a part of your Award, and is further subject to all interpretations, amendments, rules and regulations which may from time to time be promulgated and adopted pursuant to the Plan. Your Award (and any compensation paid or shares issued under your Award) is subject to recoupment in accordance with the Dodd–Frank Wall Street Reform and Consumer Protection Act and any implementing regulations thereunder, any clawback policy adopted by the Company and any compensation recovery policy otherwise required by applicable law. No recovery of compensation under such a clawback policy will be an event giving rise to a right to voluntarily terminate employment on a resignation for “good reason,” or for a “constructive termination” or any similar term under any plan of or agreement with the Company. You hereby acknowledge receipt or the right to receive a document providing the information required by Rule 428(b)(1) promulgated under the Securities Act, which includes the Plan prospectus. In addition, you acknowledge receipt of the Company’s policy permitting officers and directors to sell shares only during certain “window” periods and the Company’s insider trading policy, in effect from time to time.

16. SEVERABILITY. If all or any part of this Agreement or the Plan is declared by any court or governmental authority to be unlawful or invalid, such unlawfulness or invalidity will not invalidate any portion of this Agreement or the Plan not declared to be unlawful or invalid. Any Section of this Agreement (or part of such a Section) so declared to be unlawful or invalid shall, if possible, be construed in a manner which will give effect to the terms of such Section or part of a Section to the fullest extent possible while remaining lawful and valid.

17. EFFECT ON OTHER EMPLOYEE BENEFIT PLANS. The value of the Award subject to this Agreement will not be included as compensation, earnings, salaries, or other similar terms used when calculating the Employee’s benefits under any employee benefit plan sponsored by the Company or any Affiliate, except as such plan otherwise expressly provides. The Company expressly reserves its rights to amend, modify, or terminate any of the Company’s or any Affiliate’s employee benefit plans.

18. AMENDMENT. Any amendment to this Agreement must be in writing, signed by a duly authorized representative of the Company. The Board reserves the right to amend this Agreement in any way it may deem necessary or advisable to carry out the purpose of the grant as a result of any change in applicable laws or regulations or any future law, regulation, interpretation, ruling, or judicial decision.

19. COMPLIANCE WITH SECTION 409A OF THE CODE. This Award is intended to comply with the “short-term deferral” rule set forth in Treasury Regulation Section 1.409A-1(b)(4). However, if this Award fails to satisfy the requirements of the short-term deferral rule and is otherwise not exempt from, and therefore deemed to be deferred compensation subject to, Section 409A of the Code, and if you are a “Specified Employee” (within the meaning set forth Section 409A(a)(2)(B)(i) of the Code) as of the date of your separation from service (within the meaning of Treasury Regulation Section 1.409A-1(h)), then the issuance of any shares or other payments that would otherwise be made on the date of the separation from service or within the first six months thereafter will not be made on the originally scheduled dates and will instead be issued in a lump sum on the date that is six months and one day after the date of the separation from service, with the balance of the shares issued and other payments made thereafter in accordance with the original vesting and issuance schedule set forth above, but if and only if such delay in the issuance of the shares and payment of the compensation is necessary to avoid the imposition of taxation on you in respect of the shares under Section 409A of the Code. Each installment of Performance Stock Units (and the related Dividend Equivalents) that vests is a “separate payment” for purposes of Treasury Regulation Section 1.409A-2(b)(2).

20. NO OBLIGATION TO MINIMIZE TAXES. The Company has no duty or obligation to minimize the tax consequences to you of this Award and will not be liable to you for any adverse tax consequences to you arising in connection with this Award. You are hereby advised to consult with your own personal tax, financial and/or legal advisors regarding the tax consequences of this Award and by signing the Grant Notice, you have agreed that you have done so or knowingly and voluntarily declined to do so.

21. DATA PRIVACY. The Company respects your privacy. In order to administer your Award, as noted above, the Company collects and uses certain personal information about you, including your prior equity grant information where applicable. If you are a California resident, you should refer to the Company’s California Consumer Privacy Act Notice for more information about the personal information the Company collects about you and the purposes for which the Company will use such data.

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO
SECURITIES EXCHANGE ACT RULES 13a-14(a) and 15d-14(a), AS ADOPTED PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael Hsing, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Monolithic Power Systems, 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(s) 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 this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) 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 6, 2020

/s/ Michael Hsing

Michael Hsing
Chief Executive Officer

**CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO
SECURITIES EXCHANGE ACT RULES 13a-14(a) and 15d-14(a), AS ADOPTED PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, T. Bernie Blegen, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Monolithic Power Systems, 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(s) 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 this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) 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 6, 2020

/s/ T. Bernie Blegen

T. Bernie Blegen
Chief Financial Officer

The following certification 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.

**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 Monolithic Power Systems, Inc., a Delaware corporation, for the quarter ended September 30, 2020 (the “Report”), as filed with the Securities and Exchange Commission, each of the undersigned officers of Monolithic Power Systems, Inc. certifies pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the accompanying 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 Report fairly presents, in all material respects, the financial condition and results of operations of Monolithic Power Systems, Inc. for the periods presented therein.

Date: November 6, 2020

/s/ Michael Hsing
Michael Hsing
Chief Executive Officer

Date: November 6, 2020

/s/ T. Bernie Blegen
T. Bernie Blegen
Chief Financial Officer