UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 Form 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE \checkmark **SECURITIES EXCHANGE ACT OF 1934** For the Quarterly Period Ended September 30, 2023

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

For the transition period from

Commission File Number 000-29472

AMKOR TECHNOLOGY, INC.

Delaware (State of incorporation)

23-1722724 (I.R.S. Employer Identification Number)

2045 East Innovation Circle Tempe, AZ 85284 (Address of principal executive offices and zip code)

(480) 821-5000

		(/ -				
		(Registrant's telephone numb	ber, including area code)			
	S	ecurities registered pursuant	to Section 12(b) of the A	ct:		
Title of Each C	lass	Trading Symbol	Nam	e of Each Exchang	e on Which Registered	
Common Stock, \$0.00	1 par value	AMKR		The NASDAQ Glo	obal Select Market	
Indicate by check mark whether during the preceding 12 months requirements for the past 90 days	s (or for such shorte			` '	9	
Indicate by check mark whether Regulation S-T (§ 232.405 of the files). Yes \square No \square	•	•	•	•	•	
Indicate by check mark whether emerging growth company. See company" in Rule 12b-2 of the E	the definitions of "			·	1 0 1 3	, -
						
Large accelerated filer A	Accelerated filer	Non-accelerated filer	Smaller report	ing company	Emerging growth company	1
If an emerging growth company, or revised financial accounting st	•	•			period for complying with a	ny new

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

The number of outstanding shares of the registrant's Common Stock as of October 26, 2023 was 245,768,114.

QUARTERLY REPORT ON FORM 10-Q For the Quarter Ended September 30, 2023

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Forward-Looking Statements

This Quarterly Report on Form 10-Q' (this "Form 10-Q") contains forward-looking statements within the meaning of the federal securities laws, including, but not limited to, statements regarding (1) the amount, timing and focus of our expected capital investments in 2023, (2) our ability to fund our operating activities and financial requirements for the next twelve months, (3) the effect of changes in revenue levels and capacity utilization on our gross margin, (4) the impact of the Covid-19 pandemic on our operations, financial results and supply chain, (5) the focus of our research and development activities, (6) the anticipated impact of tax law changes in the jurisdictions in which we operate, (7) the grant and expiration of conditional reduced tax rates in jurisdictions in which we operate and expectations regarding our effective tax rate and the availability of tax incentives, (8) the creation or release of valuation allowances related to taxes in the future, (9) our repurchase or repayment of outstanding debt, (10) payment of dividends, (11) compliance with restrictive covenants in the indentures and agreements governing our current and future indebtedness, (12) expected contributions to foreign pension plans and potential future conversion of our unfunded severance plan in Korea to a defined contribution plan, (13) liability for unrecognized tax benefits and the potential impact of our unrecognized tax benefits on our effective tax rate, (14) the effect of foreign currency exchange rate exposure on our financial results, (15) the volatility of the trading price of our common stock, (16) changes to our internal controls related to integration of acquired operations and implementation of an enterprise resource planning system, (17) our efforts to enlarge our customer base in certain geographic areas and markets, (18) demand for advanced packages in mobile and automotive devices and our technology leadership and potential growth in the communications and automotive and industrial end markets, (19) projects to install or integrate new information technology systems or upgrade our existing systems, (20) our expected revenue recognition, (21) the anticipated schedule for and benefits from our new manufacturing facility in Bac Ninh, Vietnam (the "Vietnam Facility") and (22) other statements that are not historical facts. You are cautioned not to place undue reliance on forward-looking statements, which are often characterized by terminology such as "may,"

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"will," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "continue," or "intend," by the negative of these terms or other comparable terminology or by discussions of strategy, plans or intentions. All forward-looking statements in this Form 10-Q are made based on our current expectations, forecasts, estimates and assumptions. Because such statements include risks and uncertainties, actual results may differ materially from those anticipated in such forward-looking statements as a result of various factors, including those set forth in Part II, Item 1A and other sections of this Form 10-Q, in our Annual Report on Form 10-K for the year ended December 31, 2022 (the "2022 Form 10-K") and from time to time in our other reports filed with or furnished to the Securities and Exchange Commission ("SEC"). You should carefully consider the trends, risks and uncertainties described in this Form 10-Q, the 2022 Form 10-K, and other reports filed with or furnished to the SEC before making any investment decision with respect to our securities. If any of these trends, risks or uncertainties continues or occurs, our business, financial condition or operating results could be materially and adversely affected, the trading prices of our securities could decline and you could lose part or all of your investment. All forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by this cautionary statement. We assume no obligation to review or update any forward-looking statements to reflect events or circumstances occurring after the date of this Form 10-Q except as may be required by applicable law.

PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

AMKOR TECHNOLOGY, INC. CONSOLIDATED STATEMENTS OF INCOME (Unaudited)

	For the Three Months Ended September 30,					For the Nine Month 3		ded September
		2023		2022		2023		2022
			((In thousands, exc	ept	per share data)		
Net sales	\$	1,821,793	\$	2,083,691	\$	4,751,254	\$	5,185,375
Cost of sales		1,539,040		1,662,463		4,087,210		4,189,662
Gross profit		282,753		421,228		664,044		995,713
Selling, general and administrative		73,020		67,947		216,551		213,774
Research and development		43,135		33,994		135,870		109,835
Total operating expenses		116,155		101,941		352,421		323,609
Operating income		166,598		319,287		311,623		672,104
Interest expense		13,001		14,879		43,522		43,620
Other (income) expense, net		(8,777)		(5,692)		(24,212)		(18,829)
Total other expense, net		4,224		9,187		19,310		24,791
Income before taxes		162,374		310,100		292,313		647,313
Income tax expense		28,923		3,643		49,194		44,159
Net income		133,451		306,457		243,119		603,154
Net income attributable to non-controlling interests		(837)		(376)		(868)		(1,632)
Net income attributable to Amkor	\$	132,614	\$	306,081	\$	242,251	\$	601,522
Net income attributable to Amkor per common share:								
Basic	\$	0.54	\$	1.25	\$	0.99	\$	2.46
Diluted	\$	0.54	\$	1.24	\$	0.98	\$	2.45
Shares used in computing per common share amounts:								
Basic		245,740		244,744		245,571		244,581
Diluted		247,129		246,094		247,080		246,015

AMKOR TECHNOLOGY, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (Unaudited)

	For		ths Ei 80,	nded September	Fo	r the Nine Month 30	led September
		2023		2022		2023	2022
				(In tho	usand	s)	
Net income	\$	133,451	\$	306,457	\$	243,119	\$ 603,154
Other comprehensive income (loss), net of tax:							
Adjustments to net unrealized gains (losses) on available-for-sale debt investments		124		(332)		216	(2,039)
Adjustments to unrealized components of defined benefit pension plans		(97)		5		(292)	14
Foreign currency translation		380		(7,509)		(14,784)	(31,536)
Total other comprehensive income (loss)		407		(7,836)		(14,860)	(33,561)
Comprehensive income		133,858		298,621		228,259	569,593
Comprehensive income attributable to non-controlling interests		(837)		(376)		(868)	(1,632)
Comprehensive income attributable to Amkor	\$	133,021	\$	298,245	\$	227,391	\$ 567,961

AMKOR TECHNOLOGY, INC. CONSOLIDATED BALANCE SHEETS (Unaudited)

		September 30, 2023		December 31, 2022
		(In thousands, exc	ept p	er share data)
ASSETS				
Current assets:				
Cash and cash equivalents	\$	735,733	\$	959,072
Short-term investments (amortized cost of \$440,417 and \$283,641 in 2023 and 2022, respectively)		439,002		281,964
Accounts receivable, net of allowances		1,411,393		1,365,504
Inventories		477,935		629,576
Other current assets		61,579		65,123
Total current assets		3,125,642		3,301,239
Property, plant and equipment, net		3,321,467		3,135,614
Operating lease right of use assets		129,515		171,163
Goodwill		18,888		21,517
Restricted cash		3,950		3,334
Other assets		135,387		188,890
Total assets	\$	6,734,849	\$	6,821,757
LIABILITIES AND EQUITY				
Current liabilities:				
Short-term borrowings and current portion of long-term debt	\$	149,890	\$	143,813
Trade accounts payable		827,854		899,164
Capital expenditures payable		233,603		146,602
Short-term operating lease liability		43,830		70,991
Accrued expenses		346,913		401,841
Total current liabilities		1,602,090		1,662,411
Long-term debt		947,227		1,088,521
Pension and severance obligations		88,326		93,540
Long-term operating lease liabilities		59,004		75,745
Other non-current liabilities		160,103		201,839
Total liabilities		2,856,750		3,122,056
Commitments and contingencies (Note 15)				
Stockholders' equity:				
Preferred stock, \$0.001 par value, 10,000 shares authorized, designated Series A, none issued		_		_
Common stock, \$0.001 par value, 500,000 shares authorized; 292,033 and 291,249 shares issued; and 245,764 and 245,091 shares outstanding in 2023 and 2022, respectively		292		291
Additional paid-in capital		2,005,026		1,996,344
Retained earnings		2,061,596		1,874,644
Accumulated other comprehensive income (loss)		1,839		16,699
Treasury stock, at cost, 46,269 and 46,158 shares in 2023 and 2022, respectively		(222,065)		(219,226)
Total Amkor stockholders' equity		3,846,688		3,668,752
Non-controlling interests in subsidiaries		31,411		30,949
Total equity		3,878,099	_	3,699,701
Total liabilities and equity	\$	6,734,849	\$	6,821,757
Total national county	_	-,,- 10	<u> </u>	-,,

AMKOR TECHNOLOGY, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (Unaudited)

	Comm	Common Stock Addition							Accumulated Other	Other Treasury Stock		Total Amkor Stockholders'		Noncontrolling	m . 1	
-	Shares	P	ar Value	Ad	lditional Paid- In Capital	Ret	ained Earnings		Comprehensive Income (Loss)	Shares		Cost	Stockholders' Equity		Interest in Subsidiaries	Total Equity
									,	usands)						
Balance at June 30, 2023	291,958	\$	292	\$	2,005,055	\$	1,947,420	\$	1,432	(46,269)	\$	(222,049)	\$ 3,732,150	\$,	\$ 3,762,859
Net income	_		_		_		132,614		_	_		_	132,614		837	133,451
Other comprehensive income (loss)	_		_		_		_		407	_		_	407		_	407
Treasury stock acquired through surrender of shares for tax withholding	_		_		_		_		_	_		(16)	(16)		_	(16)
Issuance of stock through share-based compensation plans	75		_		360		_		_	_		_	360		_	360
Share-based compensation	_		_		(389)		_		_	_		_	(389)		_	(389)
Cash dividends declared (\$0.075 per common share)	_		_		_		(18,438)		_	_		_	(18,438)		_	(18,438)
Subsidiary dividends to non- controlling interests	_		_		_		_		_	_		_	_		(135)	(135)
Balance at September 30, 2023	292,033	\$	292	\$	2,005,026	\$	2,061,596	\$	1,839	(46,269)	\$	(222,065)	\$ 3,846,688	\$	31,411	\$ 3,878,099
=					-		·							_	·	
Balance at December 31, 2022	291,249	\$	291	\$	1,996,344	\$	1,874,644	\$	16,699	(46,158)	\$	(219,226)	\$ 3,668,752	\$	30,949	\$ 3,699,701
Net income	_		_		_		242,251		_	_		_	242,251		868	243,119
Other comprehensive income (loss)	_		_		_		_		(14,860)	_		_	(14,860)		_	(14,860)
Treasury stock acquired through surrender of shares for tax withholding	_		_		_		_		_	(111)		(2,839)	(2,839)		_	(2,839)
Issuance of stock through share-based compensation plans	784		1		2,284		_		_	_		_	2,285		_	2,285
Share-based compensation	_		_		6,398		_		_	_		_	6,398		_	6,398
Cash dividends declared (\$0.225 per common share)	_		_		_		(55,299)		_	_		_	(55,299)		_	(55,299)
Subsidiary dividends to non- controlling interests	_		_		_		_		_	_		_	_		(406)	(406)
Balance at September 30, 2023	292,033	\$	292	\$	2,005,026	\$	2,061,596	\$	1,839	(46,269)	\$	(222,065)	\$ 3,846,688	\$	31,411	\$ 3,878,099

AMKOR TECHNOLOGY, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (Unaudited)

	Common Stock		í.	 lditional Paid-	id			Accumulated Other Comprehensive -		ury S	tock	Total Amkor Stockholders'		Noncontrolling Interest in			Total
•	Shares	Par	r Value	In Capital	Ret	ained Earnings		Income (Loss)	Shares		Cost	3	Equity		Subsidiaries		Equity
•								(In thou	sands)								
Balance at June 30, 2022	290,788	\$	291	\$ 1,985,992	\$		\$	(5,747)	(46,155)	\$	(219,147)	\$	3,196,295	\$	31,255	\$	3,227,550
Net income	_		_	_		306,081		_	_		_		306,081		376		306,457
Other comprehensive income (loss)	_		_	_		_		(7,836)	_		_		(7,836)		_		(7,836)
Issuance of stock through share-based compensation plans	178		_	1,460		_		_	_		_		1,460		_		1,460
Share-based compensation	_		_	3,593		_		_	_		_		3,593		_		3,593
Cash Dividends declared (\$0.05 per common share)	_		_	_		(12,247)		_	_		_		(12,247)		_		(12,247)
Subsidiary dividends to non- controlling interests	_		_	_		_		_	_		_		_		(134)		(134)
Balance at September 30, 2022	290,966	\$	291	\$ 1,991,045	\$	1,728,740	\$	(13,583)	(46,155)	\$	(219,147)	\$	3,487,346	\$	31,497	\$	3,518,843
•				-													
Balance at December 31, 2021	290,466	\$	290	\$ 1,977,134	\$	1,163,939	\$	19,978	(46,151)	\$	(219,065)	\$	2,942,276	\$	30,270	\$	2,972,546
Net income	_		_	_		601,522		_	_		_		601,522		1,632		603,154
Other comprehensive income (loss)	_		_	_		_		(33,561)	_		_		(33,561)		_		(33,561)
Treasury stock acquired through surrender of shares for tax withholding	_		_	_		_		_	(4)		(82)		(82)		_		(82)
Issuance of stock through share-based compensation plans	500		1	3,200		_		_	_		_		3,201		_		3,201
Share-based compensation	_		_	10,711		_		_	_		_		10,711		_		10,711
Cash Dividends declared (\$0.15 per common share)	_		_	_		(36,721)		_	_		_		(36,721)		_		(36,721)
Subsidiary dividends to non- controlling interests	_		_	_		_		_	_		_		_		(405)		(405)
Balance at September 30, 2022	290,966	\$	291	\$ 1,991,045	\$	1,728,740	\$	(13,583)	(46,155)	\$	(219,147)	\$	3,487,346	\$	31,497	\$	3,518,843

AMKOR TECHNOLOGY, INC. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

	For the Nine Months Ended September 30,						
		2023		2022			
		(In tho	usands)				
Cash flows from operating activities:							
Net income	\$	243,119	\$	603,154			
Depreciation and amortization		472,396		455,679			
Other operating activities and non-cash items		30,717		(20,396)			
Changes in assets and liabilities		(50,045)	_	(492,673)			
Net cash provided by operating activities		696,187		545,764			
Cash flows from investing activities:							
Payments for property, plant and equipment		(511,654)		(575,502)			
Proceeds from sale of property, plant and equipment		1,580		2,691			
Proceeds from foreign exchange forward contracts		31,038		6,763			
Payments for foreign exchange forward contracts		(70,251)		(95,789)			
Payments for short-term investments		(491,056)		(364,274)			
Proceeds from sale of short-term investments		71,159		26,202			
Proceeds from maturities of short-term investments		267,393		274,452			
Other investing activities		4,894		2,241			
Net cash used in investing activities		(696,897)		(723,216)			
Cash flows from financing activities:							
Proceeds from revolving credit facilities		370,000		80,000			
Payments of revolving credit facilities		(370,000)		(80,000)			
Proceeds from short-term debt		20,712		29,711			
Payments of short-term debt		(14,632)		(21,662)			
Proceeds from issuance of long-term debt		_		250,000			
Payments of long-term debt		(104,952)		(183,493)			
Payments of finance lease obligations		(48,409)		(26,938)			
Payments of dividends		(55,328)		(36,725)			
Other financing activities		(1,801)		(4,152)			
Net cash (used in) provided by financing activities		(204,410)		6,741			
Effect of exchange rate fluctuations on cash, cash equivalents and restricted cash		(17,603)		(33,491)			
Net decrease in cash, cash equivalents and restricted cash		(222,723)		(204,202)			
Cash, cash equivalents and restricted cash, beginning of period		962,406		831,521			
Cash, cash equivalents and restricted cash, end of period	\$	739,683	\$	627,319			
Non-cash investing and financing activities:							
Property, plant and equipment included in capital expenditures payable	\$	227,293	\$	270,476			
Right of use assets acquired through finance lease liabilities		38,510		52,815			
Right of use assets acquired through operating lease liabilities		4,383		46,178			

1. Interim Financial Statements

Basis of Presentation. The Consolidated Financial Statements and related disclosures as of September 30, 2023, and for the three and nine months ended September 30, 2023 and 2022, contained in this Form 10-Q (the "Consolidated Financial Statements") are unaudited pursuant to the rules and regulations of the SEC. The December 31, 2022 Consolidated Balance Sheet data contained in this Form 10-Q was derived from audited financial statements but does not include all disclosures required by accounting principles generally accepted in the United States of America ("U.S. GAAP"). Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted pursuant to SEC rules and regulations. In our opinion, the Consolidated Financial Statements include all adjustments (consisting only of normal recurring adjustments) necessary for the fair statement of the results for the interim periods and should be read in conjunction with the financial statements included in the 2022 Form 10-K. The results of operations for the three and nine months ended September 30, 2023 are not necessarily indicative of the results to be expected for the full year ending December 31, 2023. Unless the context otherwise requires, all references to "Amkor," "we," "us" or "our" are to Amkor Technology, Inc. and its wholly and majority-owned subsidiaries.

Use of Estimates. The Consolidated Financial Statements have been prepared in conformity with U.S. GAAP, using management's best estimates and judgments where appropriate. These estimates and judgments affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements. The estimates and judgments will also affect the reported amounts for certain revenues and expenses during the reporting period. Actual results could differ materially from these estimates and judgments as a result of, for example, any worsening of the global business and economic environment.

Leases. Total long-term finance lease liabilities as of September 30, 2023 and December 31, 2022 were \$40.5 million and \$54.8 million, respectively.

Goodwill. The balance of goodwill in the Consolidated Balance Sheets contained in this Form 10-Q reflects adjustments for foreign currency translation.

Unbilled Receivables. Total unbilled receivables as of September 30, 2023 and December 31, 2022 were \$296.0 million and \$301.7 million, respectively.

Contract Liabilities. Contract liabilities were \$148.8 million and \$170.6 million as of September 30, 2023 and December 31, 2022, respectively. As of September 30, 2023 and December 31, 2022, the short-term portions of the liabilities were \$81.8 million and \$81.5 million, respectively. The remainder of the September 30, 2023 contract liability balance is expected to be recognized in revenue over the next 1-5 years. Revenue recognized during the nine months ended September 30, 2023 and 2022 that was included in the contract liabilities balance at the beginning of the period was \$54.1 million and \$81.3 million, respectively.

2. Net Sales by Product Group and End Market

The following table presents our net sales by product group:

	For the Three Months Ended September 30,					For the Nine Months Ended Sept 30,					
	2023 2022					2023		2022			
	(In thousands)					(In thousands)					
Advanced products (1)	\$	1,451,707	\$	1,639,409	\$	3,603,445	\$	3,879,638			
Mainstream products (2)		370,086		444,282		1,147,809		1,305,737			
Total net sales	\$	1,821,793	\$	2,083,691	\$	4,751,254	\$	5,185,375			

- (1) Advanced products include flip chip, memory and wafer-level processing and related test services.
- (2) Mainstream products include all other wirebond packaging and related test services.

Net sales by end market consist of the following:

	For the Three Months En	nded September 30,	For the Nine Months I	Ended September 30,		
	2023	2022	2023	2022		
Communications (smartphones, tablets)	55 %	47 %	48 %	42 %		
Automotive, industrial and other (ADAS, electrification, infotainment, safety)	19 %	18 %	22 %	21 %		
Computing (data center, infrastructure, PC/laptop, storage)	14 %	15 %	17 %	17 %		
Consumer (AR & gaming, connected home, home electronics, wearables)	12 %	20 %	13 %	20 %		
Total net sales	100 %	100 %	100 %	100 %		

3. Other Income and Expense

Other income and expense consist of the following:

	For t	he Three Month 30		led September	Fo	r the Nine Month 3	ed September
	2023			2022	-	2023	2022
				(In tho	usand	s)	
Interest income	\$	(12,137)	\$	(4,034)	\$	(34,589)	\$ (6,578)
Foreign currency loss (gain), net		5,659		(1,013)		12,471	(11,568)
Loss on debt retirement		_		_		_	464
Other		(2,299)		(645)		(2,094)	(1,147)
Total other (income) expense, net	\$	(8,777)	\$	(5,692)	\$	(24,212)	\$ (18,829)

4. Income Taxes

Income tax expense of \$49.2 million for the nine months ended September 30, 2023 reflects income taxes, foreign withholding taxes and minimum taxes. In July 2023, our subsidiary in Singapore was granted a renewal of a reduced tax rate through the end of 2028, subject to certain conditions and commitments.

We monitor on an ongoing basis our ability to utilize our deferred tax assets and whether there is a need for a related valuation allowance. In evaluating our ability to recover our deferred tax assets in the jurisdictions from which they arise, we consider all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, projected future taxable income, tax-planning strategies and recent results of operations.

We maintain a valuation allowance on certain U.S. and foreign deferred tax assets. Such valuation allowances are released as the related tax benefits are realized or when sufficient evidence exists to conclude that it is more likely than not that the deferred tax assets will be realized.

Unrecognized tax benefits represent reserves for potential tax deficiencies or reductions in tax benefits that could result from federal, state or foreign tax audits. Gross unrecognized tax benefits decreased from \$33.3 million as of December 31, 2022 to \$30.3 million as of September 30, 2023. All of our unrecognized tax benefits would reduce our effective tax rate if recognized. Our unrecognized tax benefits are subject to change for effective settlement of examinations, changes in the recognition threshold of tax positions, the expiration of statutes of limitations and other factors.

We have tax returns that are open to examination in various jurisdictions for tax years 2013-2022. The open years contain matters that could be subject to differing interpretations of applicable tax laws and regulations related to the amount and/or timing of income, deductions and tax credits. There can be no assurance that the outcome of the examinations will be favorable. In certain circumstances where we elect to appeal the results of an examination, we may be required to make tax assessment payments to proceed with the administrative appeal process.

5. Earnings Per Share

Basic earnings per share ("EPS") is computed by dividing net income attributable to Amkor common stockholders by the weighted-average number of common shares outstanding during the period. The weighted-average number of common shares outstanding is reduced for treasury stock.

Diluted EPS is computed based on the weighted-average number of common shares outstanding plus the effect of dilutive potential common shares outstanding during the period. Dilutive potential common shares include outstanding stock options, performance-vested restricted stock units, time-vested restricted stock units and unvested restricted shares.

The following table summarizes the computation of basic and diluted EPS:

	For		hs End 0,	led September	For t		s Ended September 0,		
	2023			2022		2023		2022	
				(In tho except per		ata)			
Net income attributable to Amkor common stockholders	\$	132,614	\$	306,081	\$	242,251	\$	601,522	
Weighted-average number of common shares outstanding - basic		245,740		244,744		245,571		244,581	
Effect of dilutive securities:									
Share-based awards		1,389		1,350		1,509		1,434	
Weighted-average number of common shares outstanding - diluted		247,129		246,094		247,080		246,015	
Net income attributable to Amkor per common share:	·								
Basic	\$	0.54	\$	1.25	\$	0.99	\$	2.46	
Diluted		0.54		1.24		0.98		2.45	

The following table summarizes the potential shares of common stock that were excluded from diluted EPS because the effect of including these potential shares was anti-dilutive:

For the Three Month 30		For the Nine Months I	Ended September
2023	2023 2022		2022
	(In tho	isands)	
_	324	_	306

6. Accumulated Other Comprehensive Income (Loss)

Changes in accumulated other comprehensive income (loss), net of tax, consist of the following:

	(Loss	realized Gains es) on Available- or-Sale Debt vestments (1)	Defined Benefit Pension (2)	Total		
			(In tho	usar	ius)	
Accumulated other comprehensive income (loss) at December 31, 2022	\$	(1,573)	\$ 14,220	\$	4,052	\$ 16,699
Other comprehensive income (loss) before reclassifications		490	_		(14,784)	(14,294)
Amounts reclassified from accumulated other comprehensive income (loss)		(274)	(292)		_	(566)
Other comprehensive income (loss)		216	(292)		(14,784)	(14,860)
Accumulated other comprehensive income (loss) at September 30, 2023	\$	(1,357)	\$ 13,928	\$	(10,732)	\$ 1,839

	Unrealized Gains osses) on Available- for-Sale Debt Investments (1)	Defined Benefit Pension (2)						
Accumulated other comprehensive income (loss) at December 31, 2021	\$ (348)	\$	5,616	\$	14,710	\$	19,978	
Other comprehensive income (loss) before reclassifications	(2,057)		_		(31,536)		(33,593)	
Amounts reclassified from accumulated other comprehensive income (loss)	18		14		_		32	
Other comprehensive income (loss)	(2,039)		14		(31,536)		(33,561)	
Accumulated other comprehensive income (loss) at September 30, 2022	\$ (2,387)	\$	5,630	\$	(16,826)	\$	(13,583)	

⁽¹⁾ Amounts reclassified out of accumulated other comprehensive income (loss) are included as other (income) expense, net (Note 3).

⁽²⁾ Amounts reclassified out of accumulated other comprehensive income (loss) are included as a component of net periodic pension cost (Note 12) or other (income) expense, net (Note 3).

7. Investments

All of our available-for-sale debt investments as of September 30, 2023 are available to fund current operations and are recorded at fair value (Note 14).

The following table summarizes our cash equivalents and available-for-sale debt investments:

						Septembe	r 30,	2023				
										Fair Val	ue Le	evel
	Amo	rtized Cost	Gro	ss Unrealized Gains	G	ross Unrealized Losses (1)	To	Total Fair Value		Level 1		Level 2
	(In thousa			usan	ds)							
Cash equivalents												
Asset-backed securities	\$	1,484	\$	2	\$	(5)	\$	1,481	\$	_	\$	1,481
Commercial paper		43,206		_		_		43,206		_		43,206
Money market funds		71,764		_		_		71,764		71,764		_
U.S. government bonds		14,662		2		_		14,664		14,664		_
Total cash equivalents (2)		131,116		4		(5)		131,115		86,428		44,687
Short-term investments												
Asset-backed securities		59,503		7		(151)		59,359		_		59,359
Certificate of deposits		23,351		_		_		23,351		23,351		_
Commercial paper		55,244		_		_		55,244		_		55,244
Corporate bonds		236,644		115		(1,117)		235,642		_		235,642
Foreign government bonds		1,301		_		_		1,301		_		1,301
U.S. government agency bonds		13,258		_		(39)		13,219		_		13,219
U.S. government bonds		46,076		1		(231)		45,846		45,846		_
Total short-term investments		435,377		123		(1,538)		433,962		69,197		364,765
Total	\$	566,493	\$	127	\$	(1,543)	\$	565,077	\$	155,625	\$	409,452

Commercial paper

Foreign government bonds

Mortgage-backed securities

U.S. government bonds

U.S. government agency bonds

Total short-term investments

Corporate bonds

Municipal bonds

Total

AMKOR TECHNOLOGY, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS — (Continued) (Unaudited)

December 31, 2022

(1,529)

(4)

(2)

(2)

(1)

(20)

(1,692)

(1,692)

27,866

197,346

992

694

362

734

6,685

24,047

132,465

6,685

277,591

473,121

27,866

197,346

992

694

362

734

253,544

340,656

									Fair Va	lue L	evel	
	Amortized Cost				ss Unrealized Gains	Gross Unrealized Losses (1)		Total Fair Value		Level 1		Level 2
			(In thousands)									
Cash equivalents												
Asset-backed securities	\$	25	\$	_	\$	_	\$	25	\$ _	\$	25	
Commercial paper		69,101		_		_		69,101	_		69,101	
Money market funds		97,650		_		_		97,650	97,650		_	
Municipal bonds		1,001		_		_		1,001	_		1,001	
U.S. government agency bonds		16,982		3		_		16,985	_		16,985	
U.S. government bonds		10,767		1		_		10,768	10,768		_	
Total cash equivalents		195,526		4		_		195,530	108,418		87,112	
Short-term investments												
Asset-backed securities		25,677		7		(134)		25,550	_		25,550	
Certificate of deposits		17,362		_		<u> </u>		17,362	17,362		_	

7

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19

- (1) All unrealized losses have been in a continuous loss position for less than 12 months. We do not intend to sell the investments in an unrealized loss position, and it is not more likely than not that we will be required to sell these investments before recovery of their amortized cost bases.
- (2) For nine months ended September 30, 2023 and 2022, we sold cash equivalent investments for proceeds of \$41.5 million and \$27.1 million, respectively, and realized no gain or loss on such sales.

The following table summarizes the contractual maturities of our cash equivalents and available-for-sale debt investments as of September 30, 2023:

27,866

198,868

996

696

364

735

6,704

279,268

474,794

	Amo	ortized Cost	1	Fair Value		
		(In thousands)				
Within 1 year	\$	399,939	\$	399,341		
After 1 year through 5 years		105,567		104,896		
Asset-backed securities		60,987		60,840		
Total	\$	566,493	\$	565,077		

Actual maturities can differ from contractual maturities due to various factors including the issuers may have the right to call or prepay obligations without call or prepayment penalties.

As of September 30, 2023, the amortized cost and the fair market value of our held-to-maturity government bond (Level 1) maturing within a year was \$5.0 million. As of December 31, 2022, the amortized cost and the fair market value of our held-to-maturity government bond (Level 1) maturing within a year was \$4.4 million and \$4.3 million, respectively.

8. Factoring of Accounts Receivable

For certain accounts receivable, we use non-recourse factoring arrangements with third-party financial institutions to manage our working capital and cash flows. Under these arrangements, we sell receivables to a financial institution for cash at a discount to the face amount. As part of the factoring arrangements, we perform certain collection and administrative functions for the receivables sold. For the three and nine months ended September 30, 2023, we sold receivables totaling \$22.3 million and \$149.8 million, respectively, net of discounts and fees. Discounts and fees were insignificant for the three months ended September 30, 2023, and \$0.3 million for the nine months ended September 30, 2023. For the three and nine months ended September 30, 2022, we sold receivables totaling \$82.3 million and \$247.8 million, net of discounts and fees of \$0.2 million and \$0.6 million, respectively.

9. Property, Plant and Equipment

Property, plant and equipment consist of the following:

	S	September 30, 2023		December 31, 2022		
		(In thousands)				
Land	\$	211,485	\$	214,763		
Buildings and improvements		1,830,185		1,817,135		
Machinery and equipment		6,944,817		6,757,652		
Finance lease assets		193,174		165,122		
Furniture, fixtures and other equipment		22,547		23,240		
Software and computer equipment		244,422		240,610		
Construction in progress		451,855		152,809		
Total property, plant and equipment		9,898,485		9,371,331		
Accumulated depreciation and amortization		(6,577,018)		(6,235,717)		
Total property, plant and equipment, net	\$	3,321,467	\$	3,135,614		

The following table summarizes our depreciation expense:

	For		hs En	ded September	Fo	r the Nine Month 3	ed September	
		2023 2022				2023		2022
				(In thou	ısand	s)		
Depreciation expense	\$	157,610	\$	156,192	\$	471,967	\$	455,230

As of September 30, 2023 and December 31, 2022, we had \$321.8 million and \$79.6 million of costs, including capitalized interest of \$5.5 million and \$0.7 million, respectively, in construction in progress for the Vietnam Facility. In October 2023, we completed the initial phase of construction for our Vietnam Facility and will transfer approximately \$240 million from construction in progress to buildings and improvements.

10. Accrued Expenses

Accrued expenses consist of the following:

	S	eptember 30, 2023		December 31, 2022		
		(In thousands)				
Payroll and benefits	\$	107,993	\$	137,445		
Deferred revenue and customer advances		81,835		81,459		
Short-term finance lease liabilities		62,222		56,570		
Income taxes payable		30,692		50,685		
Accrued severance plan obligations		6,919		7,422		
Accrued interest		2,368		10,878		
Other accrued expenses		54,884		57,382		
Total accrued expenses	\$	346,913	\$	401,841		

11. Debt

Following is a summary of short-term borrowings and long-term debt:

	Sept	ember 30, 2023	December 3	1, 2022
		(In tho	usands)	
Debt of Amkor Technology, Inc.:				
Senior notes:				
6.625% Senior notes, due September 2027	\$	525,000	\$	525,000
Debt of subsidiaries:				
Amkor Technology Korea, Inc.:				
Term loan, fixed rate at 1.85%, due April 2024 (1)				
Term loan, fixed rate at 2.12%, due December 2028		200,000		200,000
Amkor Technology Japan, Inc.:				
Short-term term loans, variable rate (2)		9,574		4,042
Term loan, fixed rate at 1.30%, due July 2023				29,744
Term loan, fixed rate at 1.35%, due December 2024		47,700		86,943
Term loan, fixed rate at 1.20%, due December 2025		32,838		49,878
Term loan, fixed rate at 1.23%, due December 2026		57,006		79,927
Term loan, fixed rate at 1.59%, due December 2027		89,342		119,738
Amkor Assembly & Test (Shanghai) Co., Ltd.:				
Term loans, SOFR plus 0.75%, due March 2024 (3)		45,000		46,000
Term loans, SOFR plus 0.75%, due June 2025 (3)		38,000		39,000
Term loans, SOFR plus 0.75%, due 2025 (3)		58,000		59,500
Other:				
Credit facility, TAIFX plus the applicable bank rate, due December 2024 (Taiwan) (4)				_
Senior secured revolving credit facility, applicable bank rate plus 1.75%, due March 2027 (Singapore) (5)		_		_
		1,102,460	1	,239,772
Less: Unamortized discount and deferred debt costs, net		(5,343)		(7,438)
Less: Short-term borrowings and current portion of long-term debt		(149,890)	(143,813)
Long-term debt	\$	947,227	\$ 1	,088,521

- (1) In April 2021, we entered into a ₩80 billion term loan agreement with the option to borrow and re-borrow the funds up to six times per year through April 2024. Principal is payable at maturity, and interest is payable monthly, at a fixed rate of 1.85%. As of September 30, 2023, ₩80.0 billion, or approximately \$59 million, was available to be drawn.
- (2) We entered into various short-term term loans which mature semiannually. Principal and interest are payable in monthly installments. Interest as of September 30, 2023 is at an annual base rate equal to the Tokyo Interbank Offered Rate plus 0.18% to 0.20% (weighted average of 0.25% as of September 30, 2023). As of September 30, 2023, \$4.5 million was available to be drawn.
- (3) In June 2023, Amkor Assembly & Test Co. Ltd. amended all term loans to replace London Interbank Offered Rate ("LIBOR") with a Secured Overnight Financing Rate ("SOFR") plus 0.75% annual base rate (weighted average of 6.05% as of September 30, 2023). This contractual amendment is treated as a modification with no recognized gain or loss.

- (4) In March 2022, Amkor Technology Taiwan Ltd. ("ATT") amended an existing revolving credit facility to reduce availability from \$36.0 million to \$15.0 million. As of September 30, 2023, \$15.0 million was available for future borrowings under such credit facility.
- (5) In March 2022, Amkor Technology Singapore Holdings Pte. Ltd. ("ATSH") entered into a \$600.0 million senior revolving credit facility (the "2022 Singapore Revolver"), which is guaranteed by Amkor Technology, Inc., ATT and Amkor Advanced Technology, Inc. ("AATT"). The maximum borrowing capacity under the 2022 Singapore Revolver is limited to a base amount equal to the lesser of: (1) \$600.0 million; or (2) \$250.0 million plus a variable amount equal to 37.5% of our consolidated accounts receivable balance. As of September 30, 2023, \$600.0 million was available for future borrowings under the 2022 Singapore Revolver.

Certain of our foreign debt is collateralized by the land, buildings, equipment and accounts receivable in the respective locations. As of September 30, 2023, the collateralized debt balance was \$568.0 million, of which \$336.0 million of assets were pledged as collateral.

The debt of Amkor Technology, Inc. is structurally subordinated in right of payment to all existing and future debt and other liabilities of our subsidiaries. From time to time, Amkor Technology, Inc., ATT, AATT, and ATSH guarantee certain debt of our subsidiaries. The agreements governing our indebtedness contain affirmative and negative covenants which restrict our ability to pay dividends and could restrict our operations. These restrictions are determined in part by calculations based upon cumulative net income and do not currently have a material impact on our ability to make dividend payments or stock repurchases.

We were in compliance with all debt covenants at September 30, 2023.

12. Pension Plans

Foreign Defined Benefit Pension Plans

Our subsidiaries in Japan, Korea, Malaysia, the Philippines and Taiwan sponsor defined benefit pension plans. Charges to expense are based upon actuarial analyses. The components of net periodic pension cost for these defined benefit pension plans are as follows:

	For the Three Months Ended September 30,					For the Nine Months Ended Septem 30,			
	2023			2022	-	2023		2022	
				(In tho	usand	ls)			
Service cost	\$	3,641	\$	4,760	\$	11,166	\$	15,266	
Interest cost		1,552		1,131		4,713		3,593	
Expected return on plan assets		(1,276)		(1,339)		(3,865)		(4,260)	
Recognized actuarial (gain) loss		(101)		13		(304)		39	
Net periodic pension cost	\$	3,816	\$	4,565	\$	11,710	\$	14,638	

The components of net periodic pension cost other than the service cost component are included in other (income) expense, net in our Consolidated Statements of Income.

Defined Contribution Pension Plans

We sponsor defined contribution pension plans in Korea, Malaysia, Taiwan and the U.S. The following table summarizes our defined contribution expense:

For th	e Three Mont 3	hs Ended Se 0,	eptember	For t		ns Ended September 0,			
	2023 2022				2023 2022				
			(In the	usands))				
\$	5,893	\$	4,893	\$	20,942	\$	18,395		

13. Derivatives

We use foreign currency forward contracts to mitigate foreign currency risk of certain monetary assets and liabilities denominated in foreign currencies. We do not enter into such contracts for trading or speculative purposes. These derivative instruments are not designated as hedging instruments.

As of September 30, 2023 and December 31, 2022, our foreign exchange forward contracts consisted of the following:

			Sej	ptember 30, 2023				De	ecember 31, 2022	
	N	otional Value	Fa	ir Value (Level 2)	Balance Sheet Location		Notional Value	Fa	ir Value (Level 2)	Balance Sheet Location
					(In tho	ousa	nds)			
Japanese yen	\$	174,394	\$	(628)	Accrued expenses	\$	330,179	\$	6,284	Other current assets
Korean won		92,186		201	Other current assets		65,927		333	Other current assets
Philippine peso		7,881		(4)	Accrued expenses		3,085		(6)	Accrued expenses
Singapore dollar		15,434		29	Other current assets		_		_	N/A
Taiwan dollar		22,819		38	Other current assets		28,763		(57)	Accrued expenses
Total forward contracts	\$	312,714	\$	(364)		\$	427,954	\$	6,554	

For the three and nine months ended September 30, 2023, the derivatives resulted in a net loss of \$13.8 million and \$52.2 million, respectively, which were offset by the foreign currency gains associated with the underlying net liabilities. For the three and nine months ended September 30, 2022, the derivatives resulted in a net loss of \$29.1 million and \$94.2 million, respectively, which were offset by the foreign currency gains associated with the underlying net liabilities.

14. Fair Value Measurements

The accounting framework for determining fair value includes a hierarchy for ranking the quality and reliability of the information used to measure fair value, which enables the reader of the financial statements to assess the inputs used to develop those measurements. The fair value hierarchy consists of three tiers as follows: Level 1, defined as quoted market prices in active markets for identical assets or liabilities; Level 2, defined as inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, model-based valuation techniques for which all significant assumptions are observable in the market or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; and Level 3, defined as unobservable inputs that are not corroborated by market data. For our Level 2 short-term investments, we consider factors such as actual trade data, benchmark yields, broker/dealer quotes, and other similar data obtained from quoted market prices and independent pricing vendors to determine the fair value of these assets and liabilities.

The fair values of cash, accounts receivable, trade accounts payable, capital expenditures payable and certain other current assets and accrued expenses approximate carrying values because of their short-term nature. The carrying value of certain other non-current assets and liabilities approximates fair value. Our assets and liabilities recorded at fair value on a recurring basis include restricted cash money market funds and short-term investments, including investments classified as cash equivalents. Cash equivalent money market funds and restricted cash money market funds are invested in U.S. money market funds and various U.S. and foreign bank operating and time deposit accounts, which are due on demand or carry a maturity date of less than three months when purchased. No restrictions have been imposed on us regarding withdrawal of balances with respect to our cash equivalents as a result of liquidity or other credit market issues affecting the money market funds we invest in or the counterparty financial institutions holding our deposits.

Our derivative financial instruments are valued using quoted market prices for similar assets. Counterparties to these derivative contracts are highly rated financial institutions.

We also measure certain assets and liabilities, including property, plant and equipment and goodwill, at fair value on a nonrecurring basis.

We measure the fair value of our debt for disclosure purposes. The following table presents the fair value of our debt:

	Septembe	er 30,	, 2023		Decembe	r 31,	, 2022
	 Fair Value		Carrying Value		Fair Value		Carrying Value
			(In the	usan	ds)		
Senior notes (Level 1)	\$ 516,485	\$	521,653	\$	523,016	\$	521,114
Revolving credit facilities and term loans (Level 2)	552,879		575,464		686,728		711,220
Total debt	\$ 1,069,364	\$	1,097,117	\$	1,209,744	\$	1,232,334

The estimated fair value of our senior notes is based primarily on quoted market prices reported on or near the respective balance sheet dates. The estimated fair value of our revolving credit facilities and term loans is calculated using a discounted cash flow analysis, which utilizes market-based assumptions, including forward interest rates adjusted for credit risk.

15. Commitments and Contingencies

We generally warrant that our services will be performed in a professional and workmanlike manner and in compliance with our customers' specifications. We accrue costs for known warranty issues. Historically, our warranty costs have been immaterial.

Legal Proceedings

We are involved in claims and legal proceedings and may become involved in other legal matters arising in the ordinary course of our business. We evaluate these claims and legal matters on a case-by-case basis to determine the impact, if any, on our business, liquidity, results of operations, financial condition or cash flows. Although the outcome of these matters is uncertain, we believe that the ultimate outcome of these claims and proceedings, individually and in the aggregate, will not have a material adverse impact to us. Our evaluation of the potential impact of these claims and legal proceedings on our business, liquidity, results of operations, financial condition or cash flows could change in the future.

In accordance with the accounting guidance for loss contingencies, including legal proceedings, lawsuits, pending claims and other legal matters, we accrue for a loss contingency when we conclude that the likelihood of a loss is probable and the amount of the loss can be reasonably estimated. We adjust our accruals from time to time as we receive additional information, but the loss we incur may be significantly greater than or less than the amount we have accrued. We disclose loss contingencies if we believe they are material and there is at least a reasonable possibility that a loss has been incurred. Attorney fees related to legal matters are expensed as incurred.

Lease Commitments

As of September 30, 2023 we have entered into additional lease agreements that have not yet commenced of approximately \$11 million.

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

Overview

Amkor is one of the world's leading providers of outsourced semiconductor packaging and test services. Our financial goal is profitable sales growth. To achieve this goal, we are focused on leveraging our leadership position in services for advanced technologies, providing our customers with a geographically diverse manufacturing footprint, growing within the industry secular growth markets of 5G, automotive, high-performance computing ("HPC") and Internet-of-Things ("IoT"), optimizing utilization of existing assets, and selectively growing our scale and scope through strategic investments.

We are an industry leader in developing and commercializing advanced packaging and test technologies, which we believe provide substantial value to our customers. Advanced packages, which account for a significant portion of mobile phone semiconductor value, are the preferred choice in the high-end smartphone market. The use of advanced packages in automotive applications is also growing, largely due to new, data-intensive applications which require increased pin count and performance. With the continuing trend towards cloud-based computing, innovative advanced packaging solutions are needed to achieve the increased speed, performance and power consumption requirements for this market. In consumer devices, further miniaturization and the integration of new functionality within IoT devices also require advanced packaging. We believe that demand for advanced packaging services will continue to grow as our customers and leading electronics original equipment manufacturers strive for smaller device geometries, higher levels of integration and performance and lower power consumption. We intend to continue to leverage our investments in advanced technology to meet the demand for these services in high growth markets.

Our broad geographic footprint, including our manufacturing presence in Portugal and our headquarters in the United States, are key differentiators for us and position us to continue to support global supply chains and to participate in initiatives to regionalize supply chains. We are preparing to deliver advanced system-in-package ("SiP") modules and other advanced packages from our Vietnam Facility, which we believe will provide customers with a cost-competitive high-volume manufacturing location that offers additional supply chain diversification.

Another key factor in our success is the optimization of asset utilization. We build and utilize manufacturing lines which support multiple customers, and we increase factory utilization through sophisticated planning processes and intensive efficiency improvement activities.

From time to time, we identify attractive opportunities to strengthen our leadership position and market share through expansion of our operations, joint ventures, acquisitions and other strategic investments. We believe that selective growth through these strategic actions can further strengthen customer relationships, help to maintain and enhance our technological leadership, diversify our revenue streams and improve our profits.

As a supplier in the semiconductor industry, our business is cyclical and impacted by broad economic factors. Historical trends indicate there has been a strong correlation between worldwide gross domestic product levels, consumer spending and semiconductor industry cycles. We believe that the general semiconductor market is currently going through a cyclical correction. The semiconductor industry has experienced significant and sometimes prolonged cyclical upturns and downturns in the past. We cannot predict the timing, strength or duration of any correction, economic slowdown, recession or subsequent economic recovery.

National, regional and local governments have implemented, and may implement in the future, restrictions to mitigate the spread of Covid-19, the emergence of new variants or the re-emergence of Covid-19 in jurisdictions in which we, our customers and our suppliers operate, and such restrictions may materially and adversely impact our operations and the operations of our customers and suppliers. We also remain subject to industry-wide supply constraints and inflationary price pressures, which have resulted in long lead times, rising prices and supply chain disruptions. For additional information regarding the potential impact of macroeconomic factors, the Covid-19 pandemic and other risks on our business, results of operations and financial condition, please refer to the "Risk Factors" section in Part II, Item 1A.

We operate in a capital-intensive industry. Servicing our current and future customers requires that we incur significant operating expenses and continue to make significant capital expenditures, which are generally made in advance of the related revenues and without firm customer commitments. We fund our operations, including capital expenditures and

debt service requirements, with cash flows from operations, existing cash and cash equivalents, short-term investments, borrowings under available credit facilities and proceeds from any additional financing. Maintaining an appropriate level of liquidity is important to our business and depends on, among other considerations, the performance of our business, our capital expenditure levels, our ability to repay debt out of our operating cash flows or proceeds from debt or equity financings and our investment strategy. As of September 30, 2023, we had cash and cash equivalents and short-term investments of \$735.7 million and \$439.0 million, respectively.

Our net sales, gross profit, operating income, cash flows, liquidity and capital resources have historically fluctuated significantly from quarter to quarter due to many factors, including the seasonality of our business, the cyclical nature of the semiconductor industry and other factors discussed in the "Risk Factors" section in Part II, Item 1A of this Form 10-Q. We expect macroeconomic conditions to be challenging in the remainder of the second half of 2023. To prepare for future growth, we will continue to make prudent investments, including investments in the Vietnam Facility, and we will closely manage other capacity expansion and control costs in response to changes in market conditions.

Financial Summary

Our net sales decreased \$261.9 million, or 12.6%, to \$1,821.8 million for the three months ended September 30, 2023 compared to \$2,083.7 million for the three months ended September 30, 2022. The decrease was primarily due to lower sales in our consumer and computing end markets, partially offset by growth in our communications end market.

Gross margin for the three months ended September 30, 2023 decreased to 15.5% compared to 20.2% for the three months ended September 30, 2022. The decrease in gross margin was primarily due to an increase in the mix of products sold with higher material content, the decrease in net sales and resulting lower factory utilization.

Operating income margin decreased 620 basis points to 9.1% for the three months ended September 30, 2023 from 15.3% for the three months ended September 30, 2022. The decrease in our operating income margin was due to the decrease in our gross margin discussed above along with an increase in research and development expenses, primarily due to additional equipment and overhead costs to support development projects in advanced packaging technologies, partially offset by projects that moved into production. Operating income margin was also impacted by an increase in selling, general and administrative expenses, primarily due to increased bad debt expense and software maintenance costs, partially offset by a reduction in employee compensation costs.

Our capital expenditures totaled \$511.7 million for the nine months ended September 30, 2023 compared to \$575.5 million for the nine months ended September 30, 2022. Our spending was primarily focused on investments in advanced packaging and test equipment and the Vietnam Facility.

Net cash provided by operating activities was \$696.2 million for the nine months ended September 30, 2023 compared to \$545.8 million for the nine months ended September 30, 2022. This increase was primarily due to changes in working capital, offset by lower net sales and operating profits.

Results of Operations

The following table sets forth certain operating data as a percentage of net sales for the periods indicated:

	For the Three Months I	Ended September 30,	For the Nine Months Ended September 3			
	2023	2022	2023	2022		
Net sales	100.0 %	100.0 %	100.0 %	100.0 %		
Materials	56.8 %	53.3 %	54.6 %	50.1 %		
Labor	8.8 %	8.6 %	10.2 %	10.4 %		
Other manufacturing costs	18.9 %	17.9 %	21.2 %	20.3 %		
Gross margin	15.5 %	20.2 %	14.0 %	19.2 %		
Operating income	9.1 %	15.3 %	6.6 %	13.0 %		
Net income attributable to Amkor	7.3 %	14.7 %	5.1 %	11.6 %		

Net Sales

	F	or th	e Three Mont	hs Ende	ed September 30,			F	or th	e Nine Month	ıs En	ded September 30,	
	2023		2022		Change			2023		2022		Change	
					(Iı	n thousands, ex	cept	percentages)					
Net sales	\$ 1,821,793	\$	2,083,691	\$	(261,898)	(12.6)%	\$	4,751,254	\$	5,185,375	\$	(434,121)	(8.4)%

The decrease in net sales for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022 was primarily due to lower sales in our consumer and computing end markets, partially offset by growth in our communications end market. The consumer end market decreased 46% and 40% for the three and nine months ended September 30, 2023 compared to 2022. The computing end market decreased 19% and 11% for the three and nine months ended September 30, 2023 compared to 2022. These end markets were impacted by the cyclical correction of the semiconductor market, product lifecycle changeovers and weaker demand. Despite this cyclical correction, communications, our largest end market, grew 3% for three and nine months ended September 30, 2023 compared to 2022, due to market share gains and the increase in silicon content within premium tier smartphones.

Gross Profit and Gross Margin

	For the T	hree M	Ionths Ended S	eptem	ber 30,		For the Nine Months Ended September 30,						
	 2023		2022		Change		2023		2022		Change		
	 (In thousands, except percentages)												
Gross profit	\$ 282,753	\$	421,228	\$	(138,475)	\$	664,044	\$	995,713	\$	(331,669)		
Gross margin	15.5 %	ó	20.2 %)	(4.7)%		14.0 %)	19.2 %	ó	(5.2)%		

Our cost of sales consists principally of materials, labor, depreciation and manufacturing overhead. Since a substantial portion of the costs at our factories is fixed, there tends to be a strong relationship between our revenue levels and gross margin. Accordingly, relatively modest increases or decreases in revenue can have a significant effect on margin and on labor and other manufacturing costs as a percentage of revenue, depending on product mix, utilization, foreign currency exchange rate movements and seasonality. We have expanded our business in packages which tend to have higher material costs than our other products. As we continue to increase production of these higher material cost products, there could be an impact on our profitability, depending on overall utilization.

Gross profit and gross margin decreased for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022, primarily due to an increase in the mix of products sold with higher material content, the decrease in net sales and resulting lower factory utilization.

Selling, General and Administrative

		For	the T	hree Month	ıs End	led September	30,		Fo	r the l	Nine Months	Ended S	September 30,	
	202	23		2022		Cha	nge		2023		2022		Change	
							(In thousands, ex	cept _j	percentages)					
Selling, general and administrative	\$ 7	73,020	\$	67,947	\$	5,073	7.5 %	\$	216,551	\$	213,774	\$	2,777	1.3 %

Selling, general and administrative expenses increased for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022, primarily due to increased bad debt expense and software maintenance costs, partially offset by a reduction in employee compensation costs.

Research and Development

	For	the T	hree Month	s End	ed September 30),		FO	r the I	Nine Months	Ende	d September 30,	
	2023		2022		Change	e		2023		2022		Change	<u>.</u>
					(I	n thousands, ex	cept	percentages)					<u>.</u>
Research and development	\$ 43,135	\$	33,994	\$	9,141	26.9 %	\$	135,870	\$	109,835	\$	26,035	23.7 %

Research and development activities are focused on developing new packaging and test services and improving the efficiency and capabilities of our existing production processes. The costs related to our technology and product

development projects are included in research and development expense until the project moves into production. Once production begins, the costs relating to production become part of the cost of sales, including ongoing depreciation for the equipment previously held for research and development activities.

Research and development expenses increased for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022, primarily due to additional equipment and overhead costs to support development projects in advanced packaging technologies, partially offset by projects that moved into production.

Other Income and Expense

	For	the	Three Months	Enc	ded September	30,		For	r the	Nine Months	En	ded September 30,	
	2023		2022		Cha	inge		2023		2022		Chang	e
						(In thousands, ex	сер	t percentages)					
Interest expense	\$ 13,001	\$	14,879	\$	(1,878)	(12.6)%	\$	43,522	\$	43,620	\$	(98)	(0.2)%
Interest income	(12,137)		(4,034)		(8,103)	>100%		(34,589)		(6,578)		(28,011)	>100%
Foreign currency loss (gain), net	5,659		(1,013)		6,672	>(100)%		12,471		(11,568)		24,039	>(100)%
Loss on debt retirement	_		_		_	— %		_		464		(464)	(100.0)%
Other	(2,299)		(645)		(1,654)	>100%		(2,094)		(1,147)		(947)	82.6 %
Total other expense, net	\$ 4,224	\$	9,187	\$	(4,963)	(54.0)%	\$	19,310	\$	24,791	\$	(5,481)	(22.1)%

Interest expense decreased for the three months ended September 30, 2023 compared to the three months ended September 30, 2022, primarily due to an increase in capitalized interest for the Vietnam Facility, partially offset by higher interest rates in 2023 and additional borrowings during 2022.

Interest income increased for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022, primarily due to higher interest rates on our cash and cash equivalents and available-for-sale debt investment balances.

The changes in foreign currency loss (gain), net for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022 were primarily due to the strengthening of the U.S. dollar in the prior year compared to the foreign currencies of our subsidiaries, mainly the Japanese yen, and the associated impact on our net monetary exposure. In addition, the current year loss includes higher costs associated with our derivative instruments, which are used to reduce our exposure to foreign currency gains and losses.

Income Tax Expense

	For the Th	ree M	onths Ended S	epten	ıber 30,		For the Ni	ne Mo	nths Ended Se	ptem	ber 30,
	 2023		2022		Change		2023		2022		Change
					(In tho	usands)					
Income tax expense	\$ 28,923	\$	3,643	\$	25,280	\$	49,194	\$	44,159	\$	5,035

Income tax expense, which includes foreign withholding taxes and minimum taxes, reflects the applicable tax rates in effect in the various countries where our income is earned and is subject to volatility depending on the relative mix of earnings in each location. Income tax expense increased for the three and nine months ended September 30, 2023 compared to the three and nine months ended September 30, 2022. The prior year income tax expense was reduced by a \$16.2 million income tax benefit from the recognition of deferred tax assets we expect to utilize in future years and foreign currency exchange rate movements.

During the nine months ended September 30, 2023 and 2022, our subsidiaries in Korea and Singapore operated under various conditional reduced tax rates. As these conditional reduced tax rates expire, income earned in these jurisdictions will be subject to higher statutory income tax rates, which may cause our effective tax rate to increase.

Liquidity

We assess our liquidity based on our current expectations regarding sales and operating expenses, capital spending, dividend payments, stock and debt repurchases, debt service requirements and other funding needs. Based on this assessment, we believe that our cash flow from operating activities, together with existing cash and cash equivalents, short-term investments and availability under our credit facilities, will be sufficient to fund our working capital, capital expenditures, dividend payments, debt service, debt repurchases and other financial requirements for at least the next twelve months.

Our liquidity is affected by, among other factors, volatility in the global economy and credit markets, the performance of our business, our capital expenditure levels, other uses of our cash including any dividends and purchases of stock or debt under any repurchase program, any acquisitions, joint ventures or other investments and our ability to either repay debt out of operating cash flow or refinance it at or prior to maturity with the proceeds from debt or equity offerings. There can be no assurance that we will generate the necessary net income or operating cash flows, or be able to borrow sufficient funds, to meet the funding needs of our business beyond the next twelve months due to a variety of factors, including the cyclical nature of the semiconductor industry and other factors discussed in Part II, Item 1A of this Form 10-Q.

Our primary source of cash and the source of funds for our operations are cash flows from operations, current cash and cash equivalents, short-term investments, borrowings under available credit facilities and proceeds from any additional debt or equity financings. Please refer to Note 7 and Note 11 to our Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q for additional information on our investments and borrowings, respectively.

As of September 30, 2023, we had cash and cash equivalents and short-term investments of \$1,174.7 million. Included in our cash and short-term investments balances as of September 30, 2023 is \$1,032.0 million held offshore by our foreign subsidiaries. We have the ability to access cash held offshore by our foreign subsidiaries primarily through the repayment of intercompany debt obligations. If we were to distribute this offshore cash to the U.S. as dividends from our foreign subsidiaries, the dividends generally would not be subject to U.S. federal income tax, but the distributions may be subject to foreign withholding and state income taxes.

As of September 30, 2023, our net liability associated with unrecognized tax benefits is \$26.5 million. Due to the uncertainty regarding the amount and timing of any future cash outflows associated with our unrecognized tax benefits, we are unable to reasonably estimate the amount and period of ultimate settlement, if any, with the various taxing authorities.

For certain accounts receivable, we use non-recourse factoring arrangements with third party financial institutions to manage our working capital and cash flows. Under these arrangements, we sell receivables to a financial institution for cash at a discount to the face amount. Available capacity under these arrangements is dependent on the level of our trade accounts receivable eligible to be sold, the financial institutions' willingness to purchase such receivables and the limits provided by the financial institutions. These factoring arrangements can be reduced or eliminated at any time due to market conditions and changes in the creditworthiness of customers. For the nine months ended September 30, 2023 and 2022, we sold accounts receivable totaling \$149.8 million and \$247.8 million, net of discounts and fees of \$0.3 million and \$0.6 million, respectively.

We operate in a capital-intensive industry. Servicing our current and future customers may require that we incur significant operating expenses and make significant investments in equipment and facilities, which are generally made in advance of the related revenues and without firm customer commitments.

The maximum borrowing capacity under the 2022 Singapore Revolver is limited to a base amount equal to the lesser of: (1) \$600.0 million; or (2) \$250.0 million plus a variable amount equal to 37.5% of our consolidated accounts receivable balance. As of September 30, 2023, we had availability of \$600.0 million. As of September 30, 2023, our foreign subsidiaries had \$615.0 million available for future borrowings under revolving credit facilities, including the 2022 Singapore Revolver, and \$63.8 million available to be borrowed under term loan credit facilities for working capital purposes and capital expenditures. For additional information regarding the 2022 Singapore Revolver, please refer to Note 11 to our Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q.

As of September 30, 2023, we had debt of \$1,097.1 million, with \$149.9 million payable within 12 months. As of September 30, 2023, the interest payment obligations, based on stated coupon rates for fixed rate debt and interest rates

applicable at September 30, 2023 for variable rate debt, were \$173.9 million during the remaining term of the debt. Interest payment obligations payable within 12 months is \$49.4 million. We were in compliance with all debt covenants as of September 30, 2023, and we expect to remain in compliance with these covenants for at least the next twelve months. For additional information regarding our debt arrangements, please refer to Note 11 to our Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q.

Certain of our debt agreements have restrictions on dividend payments and the repurchase of stock and subordinated securities. These restrictions are determined in part by our covenant compliance and on calculations based upon cumulative net income and do not currently have a material impact on our ability to make dividend payments or stock repurchases.

The debt of Amkor Technology, Inc. is structurally subordinated in right of payment to all existing and future debt and other liabilities of our subsidiaries. From time to time, Amkor Technology Inc., ATT, AATT and ATSH guarantee certain debt of our subsidiaries.

In order to reduce our debt and future cash interest payments, we may from time to time repurchase or redeem our outstanding senior notes for cash or exchange shares of our common stock for our outstanding senior notes. Any such transaction may be made in the open market, through privately negotiated transactions or otherwise and would be subject to the terms of our indentures and other debt agreements, market conditions and other factors.

Our subsidiary in Korea maintains an unfunded severance plan that covers certain employees who were employed prior to August 1, 2015. As of September 30, 2023, the severance liability was \$51.8 million, with \$6.9 million payable within 12 months. Accrued severance benefits are estimated assuming all eligible employees were to terminate their employment at the balance sheet date. For service periods subsequent to August 1, 2015, employees participate in either a defined benefit pension plan or a defined contribution pension plan. From time to time, we may offer employees the option to convert from the severance plan to the defined contribution plan, which would require us to fund the converted portion of the liability. In addition, as of September 30, 2023, we had foreign pension plan obligations of \$43.4 million, for which the timing and actual amount of impact on our future cash flow is uncertain. For additional information regarding our pension and severance plans, please refer to Note 12 to our Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q and in Note 12 to the 2022 Form 10-K.

We lease certain machinery and equipment, office space and manufacturing facilities. As of September 30, 2023, our total remaining operating lease obligations and finance lease obligations were \$118.3 million and \$109.9 million, respectively, with \$47.0 million and \$66.1 million payable within 12 months, respectively. The lease obligations represent our future minimum lease payments including interest payments.

We had off-balance sheet purchase obligations for capital expenditures, long-term supply contracts and other contractual commitments. As of September 30, 2023, the purchase obligations were \$360.4 million, with \$339.0 million payable within 12 months.

Capital Returns

During the nine months ended September 30, 2023, we paid total quarterly cash dividends of \$55.3 million, and we currently anticipate that we will continue to pay quarterly cash dividends in the future. However, the payment, amount and timing of future dividends remain within the discretion of our Board of Directors and will depend upon our results of operations, financial condition, cash requirements, debt restrictions and other factors.

In August 2023, our Board of Directors terminated our stock repurchase program taking into consideration, among other things, our practice of paying quarterly cash dividends. We had not purchased any stock under the stock repurchase program since 2012.

Capital Resources

We make significant capital expenditures in order to service the demand of our customers, which are primarily focused on investments in advanced packaging and test equipment and the Vietnam Facility. During the nine months ended September 30, 2023, our capital expenditures totaled \$511.7 million.

We expect that our 2023 capital expenditures will be approximately \$750 million. Ultimately, the amount of our 2023 capital expenditures will depend on several factors including, among others, the timing and implementation of any capital projects under review, the performance of our business, economic and market conditions, the cash needs and investment opportunities for the business, the need for additional capacity to service anticipated customer demand, equipment lead times and the availability of cash flows from operations or financing. The primary sources of funds for our capital expenditures are cash flows from operations, current cash and cash equivalents, short-term investments, borrowings under available credit facilities and proceeds from any additional debt or equity financings. Please refer to Note 7 and Note 11 to our Consolidated Financial Statements in Part 1, Item 1 of this Form 10-Q for additional information on our investments and borrowings, respectively.

In addition, we are subject to risks associated with our capital expenditures, including those discussed in the "Risk Factors" section in Part II, Item 1A of this Form 10-Q under the caption "We make substantial investments in equipment and facilities to support the demand of our customers, which may materially and adversely affect our business if the demand of our customers does not develop as we expect or is adversely affected."

Cash Flows

Net cash provided by (used in) operating, investing and financing activities for the nine months ended September 30, 2023 and 2022, was as follows:

	For the Nine Months	Ended Se	ptember 30,
	 2023		2022
	 (In tho	usands)	
Operating activities	\$ 696,187	\$	545,764
Investing activities	(696,897)		(723,216)
Financing activities	(204,410)		6,741

Operating activities: Our cash flow provided by operating activities for the nine months ended September 30, 2023 increased by \$150.4 million compared to the nine months ended September 30, 2022, primarily due to changes in working capital, offset by lower net sales and operating profits.

Investing activities: Our cash flow used in investing activities for the nine months ended September 30, 2023 decreased by \$26.3 million compared to the nine months ended September 30, 2022, primarily due to decreased payments related to property, plant and equipment and decreased net payments for foreign exchange forward contracts, offset by higher net payments for short-term investments. Payments for property, plant and equipment can fluctuate based on the timing of purchase, receipt and acceptance of equipment.

Financing activities: The net cash used in financing activities for the nine months ended September 30, 2023 was primarily due to net debt repayments, the payments of our quarterly dividend and finance lease obligations. The net cash provided by financing activities for the nine months ended September 30, 2022 was primarily due to net debt borrowings, offset by the payments of our quarterly dividend.

We provide the following supplemental data to assist our investors and analysts in understanding our liquidity and capital resources. We define "free cash flow" as net cash provided by operating activities less payments for property, plant and equipment, plus proceeds from the sale of, insurance recovery for and grants for property, plant and equipment, if applicable. Free cash flow is not defined by U.S. GAAP. We believe free cash flow to be relevant and useful information to our investors because it provides them with additional information in assessing our liquidity, capital resources and financial operating results. Our management uses free cash flow in evaluating our liquidity, our ability to service debt, our ability to fund capital expenditures and our ability to pay dividends and the amount of dividends to be paid. However, free cash flow has certain limitations, including that it does not represent the residual cash flow available for discretionary expenditures since other, non-discretionary expenditures, such as mandatory debt service, are not deducted from the measure. The amount of mandatory versus discretionary expenditures can vary significantly between periods. This measure should be considered in addition to, and not as a substitute for, or superior to, other measures of liquidity or financial performance prepared in accordance with U.S. GAAP, such as net cash provided by operating activities. Furthermore, our definition of free cash flow may not be comparable to similarly titled measures reported by other companies.

	For the Nine Months	Ended :	September 30,
	 2023		2022
	 (In tho	usands)	1
Net cash provided by operating activities	\$ 696,187	\$	545,764
Payments for property, plant and equipment	(511,654)		(575,502)
Proceeds from sale of and grants for property, plant and equipment	6,168		2,691
Free cash flow	\$ 190,701	\$	(27,047)

Item 3. Quantitative and Qualitative Disclosures about Market Risk

Market Risk Sensitivity

We are exposed to market risks, primarily related to foreign currency and interest rate fluctuations. In the normal course of business, we employ established policies and procedures to manage the exposure to fluctuations in foreign currency values and changes in interest rates.

Foreign Currency Risk

The U.S. dollar is our reporting and functional currency for our subsidiaries, except for our Japan operations, where the Japanese yen is the functional currency. In order to reduce our exposure to foreign currency gains and losses, we use natural hedging techniques and forward contracts to mitigate foreign currency risk.

We have foreign currency exchange rate risk associated with the remeasurement of monetary assets and liabilities on our Consolidated Balance Sheets that are denominated in currencies other than the functional currency. We performed a sensitivity analysis of our foreign currency exposure as of September 30, 2023 to assess the potential impact of fluctuations in exchange rates for all foreign denominated assets and liabilities. Assuming that all foreign currencies appreciated 10% against the U.S. dollar and taking into account our foreign currency forward contracts, our income before taxes for the nine months ended September 30, 2023 would have been approximately \$14 million lower, due to the remeasurement of monetary assets and liabilities.

In addition, we have foreign currency exchange rate exposure on our results of operations. For the nine months ended September 30, 2023, approximately 90% of our net sales were denominated in U.S. dollars. Our remaining net sales were principally denominated in Japanese yen. For the nine months ended September 30, 2023, approximately 60% of our cost of sales and operating expenses were denominated in U.S. dollars and were largely for raw materials and costs associated with property, plant and equipment. The remaining portion of our cost of sales and operating expenses was principally denominated in the Asian currencies where our production facilities are located and largely consisted of labor. To the extent that the U.S. dollar weakens against these Asian-based currencies, similar foreign currency denominated income and expenses in the future will result in higher sales, higher cost of sales and operating expenses, with cost of sales and operating expenses having the greater impact on our financial results. Similarly, our sales, cost of sales and operating expenses will decrease if the U.S. dollar strengthens against these foreign currencies. We performed a sensitivity analysis of our foreign currency exposure as of September 30, 2023 to assess the potential impact of fluctuations in exchange rates for all foreign denominated sales and operating expenses. Assuming that all foreign currencies appreciated 10% against the U.S. dollar, our operating income for the nine months ended September 30, 2023 would have been approximately \$108 million lower.

There are inherent limitations in the sensitivity analysis presented, primarily the assumption that foreign exchange rate movements across multiple jurisdictions would change instantaneously in an equal fashion. As a result, the analysis is unable to reflect the potential effects of more complex market or other changes that could arise which may positively or negatively affect our results of operations.

Our Consolidated Financial Statements are impacted by changes in exchange rates at the entity where the local currency is the functional currency. The effect of foreign exchange rate translation for these entities was a loss of \$14.8 million and \$31.5 million for the nine months ended September 30, 2023 and 2022, respectively, and was recognized as an adjustment to equity through other comprehensive income (loss).

Interest Rate Risk

We have interest rate risk with respect to our available-for-sale debt investments. Our investment portfolio consists of various security types and maturities, with our portfolio primarily having maturities of one year or less. Our primary objective with our investment portfolio is to invest available cash while preserving capital and meeting liquidity needs. These securities are subject to interest rate risk and will decrease in value if market interest rates increase. Due to the relatively short-term nature of our investment portfolio, we believe that an immediate increase in interest rates will not have a material impact on the fair value of our available-for-sale debt investments. For information regarding our available-for-sale debt investments, see Note 7 to our Consolidated Financial Statements in Part I, Item 1 of this Form 10-Q.

In addition, we have interest rate risk with respect to our debt. Our fixed and variable rate debt includes foreign borrowings, revolving credit facilities and senior notes. Changes in interest rates have different impacts on the fixed and variable rate portions of our debt portfolio. A change in interest rates on the fixed portion of the debt portfolio impacts the fair value of the debt instrument but has no impact on interest expense or cash flows. A change in interest rates on the variable portion of the debt portfolio impacts the interest incurred and cash flows but will not have a material impact on the fair value of the instrument.

The table below presents the interest rates, maturities and fair value of our fixed and variable rate debt as of September 30, 2023:

	2023	3 - Remaining	2024	2025	2026		2027	Thereafter	Total	Fair Value
					(\$ in th	ousan	ds)			
Fixed rate debt	\$	22,829	\$ 91,317	\$ 103,157	\$ 88,562	\$	596,021	\$ 50,000	\$ 951,886	\$ 919,957
Average interest rate		1.4 %	1.4 %	1.7 %	1.8 %		6.1 %	2.1 %	4.4 %	
Variable rate debt	\$	7,260	\$ 52,814	\$ 90,500	\$ _	\$	_	\$ _	\$ 150,574	\$ 149,407
Average interest rate		2.2 %	5.5 %	6.1 %	— %		— %	— %	5.7 %	
Total debt maturities	\$	30,089	\$ 144,131	\$ 193,657	\$ 88,562	\$	596,021	\$ 50,000	\$ 1,102,460	\$ 1,069,364

For information regarding the fair value of our long-term debt, see Note 14 to our Consolidated Financial Statements in Part I, Item 1 of this Form 10-Q.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our periodic reports to the SEC 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, based on the definition of "disclosure controls and procedures" in Rule 13a-15(e) and Rule 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). In designing and evaluating the disclosure controls and procedures, management recognizes that any disclosure controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and management necessarily is required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures.

We carried out an evaluation, under the supervision and with the participation of management, including our Chief Executive Officer and our Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of September 30, 2023 and concluded those disclosure controls and procedures were effective as of that date.

Changes in Internal Control Over Financial Reporting

We carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of changes to our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act) that occurred during the quarter ended September 30, 2023. There have been no changes in our internal control over financial reporting that occurred during the three months ended September 30, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

Information about legal proceedings is set forth in Note 15 to our Consolidated Financial Statements in Part I, Item 1 of this Form 10-Q and in Note 17 to the 2022 Form 10-K.

Item 1A. Risk Factors

The factors discussed below are cautionary statements that identify important factors and risks that could cause actual results to differ materially from those anticipated by the forward-looking statements contained in this Form 10-Q. For more information, see the Forward-Looking Statements within this Form 10-Q. You should carefully consider the risks and uncertainties described below, together with all of the other information included in this Form 10-Q, in considering our business and prospects. The risks and uncertainties described below are not the only ones facing Amkor. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also adversely affect our business operations. The occurrence of any of the risks and uncertainties described below could materially and adversely affect our business, liquidity, results of operations, financial condition or cash flows.

Summary of Risk Factors

An investment in our common stock involves various risks, and you are urged to carefully consider all of the matters discussed in Part II, Item 1A of this Form 10-Q under the caption "Risk Factors" (in addition to those discussed under this "Summary of Risk Factors" section) in considering our business and prospects. The following is a list of some of these risks:

Company-Specific Risk Factors

- dependence on the cyclical and volatile semiconductor industry and vulnerability to industry downturns and declines in global economic and financial conditions;
- changes in costs, quality, availability and delivery times of raw materials, components and equipment;
- fluctuations in operating results and cash flows;
- dependence on international factories and operations, and risks relating to trade restrictions and regional conflict;
- competition with established competitors in the packaging and test business, the internal capabilities of integrated device manufacturers ("IDMs"), and new competitors, including foundries;
- our substantial investments in equipment and facilities to support the demand of our customers;
- difficulty achieving the relatively high-capacity utilization rates necessary to realize satisfactory gross margins given our high percentage of fixed costs;
- our absence of backlog and the short-term nature of our customers' commitments;
- the historical downward pressure on the prices of our packaging and test services;
- · fluctuations in our manufacturing yields;
- our ability to develop new proprietary technology, protect our proprietary technology, operate without infringing the proprietary rights of others, and implement new technologies;
- warranty claims, product return and liability risks, and the risk of negative publicity if our products fail, as well as the risk of litigation incident to our business;
- restrictive covenants in the indentures and agreements governing our current and future indebtedness;
- the possibility that we may decrease or suspend our quarterly dividend;

- significant severance plan obligations associated with our manufacturing operations in Korea; and
- the ability of certain of our stockholders to effectively determine or substantially influence the outcome of matters requiring stockholder approval.

General Risk Factors

- dependence on key customers or concentration of customers in certain end markets, such as mobile communications and automotive;
- health conditions or pandemics, such as the Covid-19 pandemic, impacting labor availability and operating capacity, capital availability, the supply
 chain and consumer demand for our customers' products and services;
- our substantial indebtedness;
- fluctuations in interest rates and changes in credit risk;
- · difficulty funding our liquidity needs;
- · difficulty attracting, retaining or replacing qualified personnel;
- maintaining an effective system of internal controls;
- our continuing development and implementation of changes to, and maintenance and security of, our information technology systems;
- challenges with integrating diverse operations;
- any changes in tax laws, taxing authorities not agreeing with our interpretation of applicable tax laws, including whether we continue to qualify for conditional reduced tax rates, or any requirements to establish or adjust valuation allowances on deferred tax assets;
- · environmental, health and safety liabilities and expenditures; and
- natural disasters and other calamities, health conditions or pandemics, political instability, hostilities or other disruptions.

Company-Specific Risk Factors

Our packaging and test services are used in volatile industries, and industry downturns and declines in global economic and financial conditions could harm our performance.

Our business is impacted by market conditions in the semiconductor industry, which is cyclical by nature and impacted by broad economic factors, such as worldwide gross domestic product and consumer spending. We believe that the general semiconductor market is currently going through a cyclical correction. The semiconductor industry has experienced significant and sometimes sudden and prolonged downturns in the past. If the industry or markets in which we compete experience slower, or even negative growth, our business and results of operations may be materially and adversely affected.

Since our business is, and will continue to be, dependent on the requirements of semiconductor companies for outsourced packaging and test services, any downturn in the semiconductor industry or any other industry that uses a significant number of semiconductor devices, such as telecommunications, automotive, computing, or consumer electronics, could have a material adverse effect on our business and operating results. During downturns, we have experienced, among other things, reduced demand, excess capacity and reduced sales. For example, the Covid-19 pandemic disrupted demand in the automotive and industrial end market in 2020, and during 2019, there was weakness in the general market and an inventory correction in the smartphone market.

In addition, declines in global economic and financial conditions have harmed our business in the past, and future global downturns could materially and adversely affect our business. New variants or the potential re-emergence of the Covid-19 pandemic or the occurrence of other epidemics or pandemics, and the imposition of related public health

measures and travel and business restrictions, may materially and adversely impact our business, financial condition, operating results and cash flows. For example, as part of a broad effort to mitigate a rising number of Covid-19 cases in Shanghai, the Chinese government mandated a lockdown of our Shanghai factory from March 2022 to June 2022. Other national, regional, and local governments have implemented, and may implement in the future, public health measures in jurisdictions in which we, our customers and our suppliers operate, and such restrictions may materially and adversely impact our operations and the operations of our customers and suppliers. We also remain subject to industry-wide supply constraints and inflationary price pressures, which have resulted in long lead times, rising prices and supply chain disruptions.

It is difficult to predict the timing, strength or duration of any economic disruption caused by the Covid-19 pandemic or which end markets will experience a slowdown or subsequent economic recovery which, in turn, makes it more challenging for us to forecast our operating results, make business decisions and identify risks that may materially affect our business, sources and uses of cash, financial condition and results of operations. Additionally, if industry conditions deteriorate, we could suffer significant losses, as we have in the past, that could materially and adversely impact our business, liquidity, results of operations, financial condition and cash flows.

Our business may suffer if the cost, quality or supply of materials or equipment changes adversely.

We obtain the materials and equipment required for the packaging and test services performed by our factories from various vendors. We source most of our materials, including critical materials such as leadframes, laminate substrates and gold wire, from a limited group of suppliers. A disruption to the operations of one or more of our suppliers could extend lead times for materials and equipment and have a negative impact on our business. For example, the Covid-19 pandemic and resulting supply chain disruptions and economic turbulence created extended lead times for some materials and equipment. To the extent the impact of such disruptive events continues or worsens, we anticipate having greater difficulty obtaining, or waiting longer to obtain, certain equipment, supplies and other materials necessary for performance of our services or necessary to increase the services we provide to customers. Furthermore, fire, severe weather, earthquakes, flooding and tsunamis in the past have impacted the supply of specialty chemicals, substrates, silicon wafers, equipment and other supplies to the electronics industry.

In addition, we purchase the majority of our materials on a purchase order basis. Our business may be harmed if we cannot obtain materials and other supplies from our vendors in a timely manner, in sufficient quantities, at acceptable quality or at competitive prices or are unable to increase our prices sufficiently to recover inflationary price increases in materials or supplies. Some of our customers are also dependent on a limited number of suppliers for certain materials and silicon wafers. Shortages or disruptions in our customers' supply channels, including any disruptions arising out of the conflict in Ukraine, could have a material adverse effect on our business, financial condition, results of operations and cash flows.

SEC rules and related industry initiatives require diligence and disclosure regarding the use of certain minerals originating from the conflict zones of the Democratic Republic of Congo and adjoining countries. Many of our customers' initiatives require us to certify that the covered materials we use in our packages do not come from the conflict areas. We incur costs associated with complying with these requirements and customer initiatives, and we may be required to increase our efforts in the future to cover additional materials and geographic areas. These requirements and customer initiatives could affect the pricing, sourcing and availability of materials used in the manufacture of semiconductor devices, and we cannot assure you that we will be able to obtain conflict-free materials or other materials covered by customer initiatives in sufficient quantities and at competitive prices or that we will be able to verify the origin of all of the materials we procure. If we are unable to meet these requirements and customer initiatives, some customers may move their business to other suppliers, and our reputation and business could be materially and adversely affected.

We purchase new packaging and test equipment to maintain and expand our operations. From time to time, increased demand for new equipment may cause lead times to extend beyond those normally required by equipment vendors, and the Covid-19 pandemic and resulting supply chain disruptions and economic turbulence created extended lead times for some equipment. In periods of increased demand and reduced availability, equipment suppliers may delay orders or only partially satisfy our equipment orders in the normal time frame. The unavailability of equipment or failures to deliver equipment on a timely basis could delay or impair our ability to meet customer orders. If we are unable to meet customer orders, we could lose potential and existing customers. Generally, we acquire our equipment on a purchase order basis and do not enter into long-term equipment agreements. As a result, we could experience adverse changes in

pricing, currency risk and potential shortages in equipment in a strong market, any of which could have a material adverse effect on our results of operations.

We are a large buyer of gold and other commodity materials, including substrates and copper. The prices of gold and other commodities used in our business fluctuate. Historically, we have been able to partially offset the effect of commodity price increases through price adjustments to some customers and changes in our product designs that reduce the material content and cost, such as the use of shorter, thinner gold wire and migration to copper wire. However, we typically do not have long-term contracts that permit us to impose price adjustments, and market conditions may limit our ability to do so. Significant price increases may materially and adversely impact our gross margin in future periods to the extent we are unable to pass along past or future commodity price increases to our customers.

Our operating results and cash flows have varied and may vary significantly as a result of factors that we cannot control.

Many factors could have a material adverse effect on our net sales, gross profit, operating results and cash flows or lead to significant variability of quarterly or annual operating results. Our profitability and ability to generate cash from operations is principally dependent upon demand for semiconductors, the utilization of our capacity, semiconductor package mix, the average selling price of our services, our ability to manage our capital expenditures and our ability to control our costs including labor, material, overhead and financing costs.

Our net sales, gross margin, gross profit, operating income, net income and cash flows have historically fluctuated significantly from quarter to quarter as a result of many of the following factors, over which we have little or no control and which we expect to continue to impact our business:

- fluctuations in demand for semiconductors and conditions in the semiconductor industry generally, as well as by specific customers, such as inventory reductions by our customers impacting demand in key markets;
- changes in cost, quality, availability and delivery times of raw materials, components, equipment and labor;
- inflation, including wage inflation, and fluctuations in commodity prices, including gold, copper and other precious metals;
- our ability to achieve our major growth objectives, including transitioning second-wave customers to advanced packages and increasing our share
 of the automotive and industrial end market;
- changes in our capacity and capacity utilization rates;
- fluctuations in interest rates and currency exchange rates, including the current rising interest rate environment;
- changes in average selling prices which can occur quickly due to the absence of long-term agreements on price;
- changes in the mix of the semiconductor packaging and test services that we sell;
- fluctuations in our manufacturing yields;
- the development, transition and ramp to high volume manufacture of more advanced silicon nodes and evolving wafer, packaging and test technologies may cause production delays, lower manufacturing yields and supply constraints for new wafers and other materials;
- the absence of backlog, the short-term nature of our customers' commitments, double bookings by customers and deterioration in customer
 forecasts and the impact of these factors, including the possible delay, rescheduling and cancellation of large orders, or the timing and volume of
 orders relative to our production capacity;
- the timing of expenditures in anticipation of future orders;
- changes in effective tax rates;
- the availability and cost of financing;

- leverage and debt covenants;
- intellectual property transactions and disputes;
- warranty and product liability claims and the impact of quality excursions and customer disputes and returns;
- costs associated with legal claims, indemnification obligations, judgments and settlements;
- political instability, conflicts (such as the ongoing conflict in Ukraine) and government shutdowns, civil disturbances and international events;
- environmental or natural disasters such as earthquakes, typhoons and volcanic eruptions;
- pandemics or other widespread illnesses that may impact our labor force, operations, liquidity, supply chain and end-user demand for products which incorporate semiconductors, such as the Covid-19 pandemic;
- costs of acquisitions and divestitures and difficulties integrating acquisitions;
- our ability to attract and retain qualified personnel to support our global operations;
- our ability to penetrate new end markets or expand our business in existing end markets;
- · dependence on key customers or concentration of customers in certain end markets, such as mobile communications and automotive; and
- restructuring charges, asset write-offs and impairments.

On October 7, 2022, the U.S. Bureau of Industry and Security announced export control regulations applicable to U.S. semiconductor technology sold in China (the "BIS Regulations"). The above factors, in addition to the BIS Regulations and other similarly restrictive trade barriers adopted by U.S. and foreign governments applicable to the semiconductor supply chain, could impact our business and the businesses of our customers. These factors may have a material and adverse effect on our business, liquidity, results of operations, financial condition and cash flows or lead to significant volatility in our quarterly or annual operating results. In addition, these factors may materially and adversely affect our credit ratings, which could make it more difficult and expensive for us to raise capital and could materially and adversely affect the price of our securities.

Our factories and operations, and those of our customers and vendors, are located in various foreign jurisdictions, which exposes us to risks arising from international trade restrictions and regional conflict.

We provide packaging and test services through our factories and other operations located in China, Japan, Korea, Malaysia, the Philippines, Portugal, Singapore and Taiwan and are preparing to offer packaging and test services from the Vietnam Facility. Substantially all of our property, plant and equipment is located outside of the United States, and many of our customers and the vendors in our supply chain are also located outside the U.S. The following are some of the risks we face in doing business internationally:

- restrictive trade barriers considered or adopted by U.S. and foreign governments applicable to the semiconductor supply chain, including laws, rules, regulations and policies in areas such as national security, licensing requirements for exports, tariffs, customs and duties, including the export rules and regulations applicable to U.S. companies that sell certain semiconductor and chipmaking equipment products to customers in China;
- laws, rules, regulations and policies within China and other countries that may favor domestic companies over non-domestic companies, including
 customer- or government-supported efforts to promote the development and growth of local competitors;
- health and safety concerns, including widespread outbreak of infectious diseases, such as Covid-19, and governmental responses thereto;
- · changes in consumer demand resulting from current or expected inflation or other variations in local economies;

- laws, rules, regulations and policies imposed by U.S. or foreign governments in areas such as data privacy, cybersecurity, antitrust and competition, tax, currency and banking, labor, environmental, and health and safety;
- the payment of dividends and other payments by non-U.S. subsidiaries may be subject to prohibitions, limitations or taxes in local jurisdictions;
- fluctuations in currency exchange rates, particularly the U.S. dollar to Japanese yen exchange rate for our operations in Japan;
- · political and social conditions, and the potential for civil unrest, terrorism or other hostilities (such as the ongoing conflict in Ukraine);
- disruptions or delays in shipments caused by customs brokers or government agencies;
- difficulties in attracting and retaining qualified personnel and managing foreign operations, including foreign labor disruptions;
- difficulty in enforcing contractual rights and protecting our intellectual property rights;
- · potentially adverse tax consequences resulting from tax laws in the U.S. and in other jurisdictions; and
- local business and cultural factors that differ from our normal standards and practices, including business practices that we are prohibited from engaging in by the U.S. Foreign Corrupt Practices Act and other anti-corruption laws and regulations.

Additionally, the BIS Regulations place limitations on the ability of companies to export certain advanced computing semiconductor chips, as well as chipmaking equipment, by requiring companies to obtain licenses to export such products and equipment into China. Certain of the Company's competitors may be exempt from the BIS Regulations by virtue of being non-U.S. manufacturers. To the extent required, Amkor would pursue export licenses and authorizations, but there can be no assurances that Amkor would obtain such licenses or authorizations on a timely or cost-effective basis or at all, or that our customers will not reroute business that would have otherwise been given to Amkor to one or more of our competitors as a result of the BIS Regulations, particularly if our competitors have, or are not required to have, required licenses or authorizations that we have not obtained. It is also possible that government agencies in China or in other countries may adopt retaliatory export control rules in response to the BIS Regulations, which could further impact our business, liquidity, results of operations, financial condition and cash flows.

We also have significant facilities and other investments in Korea, and there have been heightened security concerns in recent years stemming from North Korea's nuclear weapon and long-range missile programs as well as its military actions in the region. Furthermore, there has been a history of conflict and tension within and among other countries in the region.

The Covid-19 pandemic impacted, and may impact in the future, our operations and the operations of our customers and suppliers as a result of illness, quarantines, facility closures and travel and logistics restrictions in connection with the outbreak. National, regional, and local governments have implemented, and may implement in the future, public health measures to mitigate the spread of Covid-19, the emergence of new variants or the remergence of Covid-19 in jurisdictions in which we, our customers and our suppliers operate, and such restrictions may materially and adversely impact our operations and the operations of our customers and suppliers. Such restrictions may also affect end-user demand in each geography where our customers sell their products and services, which may materially and adversely affect demand for our services, our operating results and financial condition. We also remain subject to industry-wide supply constraints and inflationary price pressures, which have resulted in long lead times, rising prices and supply chain disruptions.

We compete against established competitors in the packaging and test business as well as internal capabilities of IDMs and face competition from new competitors, including foundries.

The outsourced semiconductor packaging and test services market is very competitive. We face substantial competition from established and emerging packaging and test service providers primarily located in Asia, including companies with significantly greater processing capacity, financial resources, local presence, research and development operations,

marketing, technology and other capabilities. In addition, we may compete with electronics manufacturing service providers or contract electronics manufacturers that also provide advanced integrated device solutions. We also may face increased competition from domestic companies located in China, where there are government-supported efforts to promote and subsidize the development and growth of the local semiconductor industry. We may be at a disadvantage in attempting to compete with entities associated with such government-supported initiatives based on their lower cost of capital, access to government resources and incentives, preferential sourcing practices, stronger local relationships or otherwise. Our competitors may also have established relationships, or enter into new strategic relationships, with one or more of the large semiconductor companies that are our current or potential customers or key suppliers to these customers. Consolidation among our competitors could also strengthen their competitive position.

Historically, we have also been dependent on the trend in outsourcing of packaging and test services by IDM and foundry customers. Our IDM and foundry customers continually evaluate the need for outsourced services against their own in-house packaging and test services. As a result, at any time and for a variety of reasons, IDMs and foundries may decide to shift some or all of their outsourced packaging and test services to internally sourced capacity. To the extent we limit capacity commitments for certain customers, these customers may increase their level of in-house packaging and test capabilities, which could make it more difficult for us to regain their business when we have available capacity. If we experience a significant loss of IDM or foundry business, it could have a material adverse effect on our business, liquidity, results of operations, financial condition and cash flows, especially during a prolonged industry downturn.

We also face competition from contract foundries, such as Taiwan Semiconductor Manufacturing Company Limited and Samsung Electronics Co., Ltd., which offer full turnkey services from silicon wafer fabrication through packaging and final test. These foundries, which are substantially larger than us and have greater financial resources than we do, have expanded their operations to include packaging and test services and may continue to expand these capabilities in the future. If a key customer decides to purchase wafers from a semiconductor foundry that provides packaging and test services, our business could be adversely affected if the customer also engages that foundry for related packaging and test services.

We cannot assure you that we will be able to compete successfully in the future against our existing or potential competitors, that our customers will not rely on internal sources or foundries for packaging and test services or that our business, liquidity, results of operations, financial condition or cash flows will not be materially and adversely affected by such increased competition.

We make substantial investments in equipment and facilities to support the demand of our customers, which may materially and adversely affect our business if the demand of our customers does not develop as we expect or is adversely affected.

We make significant investments in equipment and facilities in order to service the demand of our customers. The amount of our capital expenditures depends on several factors, including the performance of our business, our assessment of future industry and customer demand, our capacity utilization levels and availability, advances in technology, our liquidity position and the availability of financing. Our ongoing capital expenditure requirements may strain our cash and liquidity, and, in periods when we are expanding our capital base, we expect that depreciation expense and factory operating expenses associated with capital expenditures to increase production capacity will put downward pressure on our gross profit, at least in the near term. From time to time, we also make significant capital expenditures based on specific business opportunities with one or a few key customers, and the additional equipment purchased may not be readily usable to support other customers. If demand is insufficient to fill our capacity, or we are unable to efficiently redeploy such equipment, our capacity utilization and gross profit could be negatively impacted.

Furthermore, if we cannot generate or raise additional funds to pay for capital expenditures, particularly in some of the advanced packaging and bumping areas, as well as research and development activities, our growth and future profitability may be materially and adversely affected. Our ability to obtain external financing in the future is subject to a variety of uncertainties, including: our future financial condition, results of operations and cash flows; general market conditions for financing; volatility in fixed income, credit and equity markets; and economic, political and other global conditions.

In October 2023, we completed the initial phase of construction for our Vietnam Facility. There can be no assurance, however, that high-volume manufacturing will begin on schedule or that the actual scope, costs or benefits of the project will be consistent with our current expectations.

Due to our high percentage of fixed costs, we may be unable to maintain satisfactory gross margins if we are unable to achieve relatively high-capacity utilization rates.

Our operations are characterized by high fixed costs and the absence of any material backlog. Our profitability depends in part not only on pricing levels for our packaging and test services but also on the efficient utilization of our human resources and packaging and test equipment. Increases or decreases in our capacity utilization can significantly affect gross margins. Transitions between different packaging technologies can also impact our capacity utilization if we do not efficiently redeploy our equipment for other packaging and test opportunities. We cannot assure you that we will be able to achieve consistently high-capacity utilization, and if we fail to do so, our gross margins may be negatively impacted.

In addition, our fixed operating costs have increased as a result of capital expenditures for capacity expansion. The anticipated customer demand for which we have made capital investments may not materialize, and our sales may not adequately cover fixed costs, resulting in reduced profit levels or even significant losses, either of which may materially and adversely impact our business, liquidity, results of operations, financial condition and cash flows.

The lack of contractually committed customer demand may materially and adversely affect our sales.

Our packaging and test business does not typically operate with any material backlog. Our quarterly net sales from packaging and test services are substantially dependent upon our customers' demand in that quarter. Generally, our customers do not commit to purchase any significant amount of packaging or test services or to provide us with binding forecasts of demand for packaging and test services for any future period, in any material amount. In addition, we sometimes experience double booking by customers, and our customers often reduce, cancel or delay their purchases of packaging and test services for a variety of reasons, including industry-wide, customer-specific and Amkor-specific reasons. This makes it difficult for us to forecast our capacity utilization and net sales in future periods. Since a large portion of our costs is fixed and our expense levels are based in part on our expectations of future sales, we may not be able to adjust costs in a timely manner to compensate for any sales shortfall. If we are unable to adjust costs in a timely manner, our margins, operating results, financial condition and cash flows could be materially and adversely affected.

Additionally, while we generally purchase materials based on Amkor's commitments to customer forecasts, and our customers are generally responsible for any unused materials we purchase based on such commitments, due to the Covid-19 pandemic and the resulting supply chain constraints and extended lead times, we have been placing an increasing number of our orders for materials in advance of customer forecasts. If we are unable to timely fulfill our customers' orders, or if we are required to bear the cost of a substantial amount of unused materials, our margins, operating results, financial condition and cash flows could be materially and adversely affected.

Historically, there has been downward pressure on the prices of our packaging and test services.

Prices for packaging and test services have generally declined over time, and sometimes prices can change significantly in relatively short periods of time. We expect downward pressure on average selling prices for our packaging and test services to continue in the future, and this pressure may intensify during downturns in business. If we experience declining average selling prices and are unable to offset such declines by developing and marketing new packages with higher prices, reducing our purchasing costs, recovering more of our material cost increases from our customers and reducing our manufacturing costs, our business, liquidity, results of operations, financial condition and cash flows could be materially and adversely affected.

Packaging and test processes are complex, and our production yields and customer relationships may suffer from defects in the services we provide or if we do not successfully implement new technologies.

Semiconductor packaging and test services are complex processes that require significant technological and process expertise, and in line with industry practice, customers usually require us to pass a lengthy and rigorous qualification process that may take several months. Once qualified and in production, defective packages primarily result from:

- contaminants in the manufacturing environment;
- · human error;
- · equipment malfunction;

- changing processes to address environmental requirements;
- · defective raw materials: or
- defective plating services.

Test is also complex and involves sophisticated equipment and software. Similar to many software programs, these software programs are complex and may contain programming errors or "bugs." The test equipment is also subject to malfunction, and the test process is subject to operator error.

These and other factors have, from time to time, contributed to lower production yields. They may also do so in the future, particularly as we adjust our capacity, change our processing steps or ramp new technologies. In addition, we must continue to develop and implement new packaging and test technologies and expand our offering of packages to be competitive. Our production yields on new packages, particularly those packages which are based on new technologies, typically are significantly lower than our production yields on our more established packages.

Our failure to qualify new processes, maintain quality standards or acceptable production yields, if significant and prolonged, could result in the loss of customers, increased costs of production, delays, substantial amounts of returned goods and claims by customers relating thereto. Any of these problems could have a material adverse effect on our business, liquidity, results of operations, financial condition and cash flows.

Our business will suffer if we are not able to develop new proprietary technology, protect our proprietary technology and operate without infringing the proprietary rights of others.

The complexity and scope of semiconductor packaging, SiP modules and test services are rapidly increasing. As a result, we expect to develop, acquire and implement new manufacturing processes and packaging technologies and tools in order to respond to competitive industry conditions and customer requirements. Technological advances may lead to rapid and significant price erosion and may make our existing packages less competitive or our existing inventories obsolete. If we cannot achieve advances in packaging design or obtain access to advanced packaging designs developed by others, our business could suffer.

The need to develop and maintain advanced packaging capabilities and equipment could require significant research and development, capital expenditures and acquisitions in future years. In addition, converting to new packaging designs or process methodologies could result in delays in producing new package types, which could impact our ability to meet customer orders and materially and adversely impact our business.

Although we seek patent protection for some of our technology under U.S. and foreign patent laws, the process of seeking patent protection takes a long time and is expensive. There can be no assurance that patents will issue from pending or future applications or that, if patents are issued, the rights granted under the patents will provide us with meaningful protection or any commercial advantage. Any patents we do obtain will eventually expire and may be challenged, invalidated or circumvented. As a result, such patents may not offer us meaningful protection or provide the commercial advantage for which they were designed.

Some of our technologies are not covered by any patent or patent application. The confidentiality agreements on which we rely to protect these technologies may be breached or may not be adequate to protect our proprietary technologies. There can be no assurance that other countries in which we market our services will protect our intellectual property rights to the same extent as the U.S.

Our competitors may develop, patent or gain access to know-how and technology similar or superior to our own. In addition, many of our patents are subject to cross licenses, several of which are with our competitors. The semiconductor industry is characterized by frequent claims regarding the infringement of patent and other intellectual property rights. If any third party makes an enforceable infringement claim against us or our customers, we could be required to:

- · discontinue the use of certain processes or cease to provide the services at issue, which could curtail our business;
- · pay substantial damages;

- · develop non-infringing technologies, which may not be feasible; or
- acquire licenses to such technology, which may not be available on commercially reasonable terms or at all.

We may need to enforce our patents or other intellectual property rights, including our rights under patent and intellectual property licenses with third parties, or defend ourselves against claimed infringement of the rights of others through litigation, which could result in substantial cost and diversion of our resources and may not be successful. Furthermore, if we fail to obtain necessary licenses, our business could suffer, and we could be exposed to claims for damages and injunctions from third parties, as well as claims from our customers for indemnification. Unfavorable outcomes in any legal proceedings involving intellectual property could result in significant liabilities or loss of commercial advantage and could have a material adverse effect on our business, liquidity, results of operations, financial condition and cash flows. The potential impact from the legal proceedings referred to in this Form 10-Q on our results of operations, financial condition and cash flows could change in the future.

We may face warranty claims, product return and liability risks, economic damage claims and negative publicity if our packages fail.

Our packages are incorporated into a number of end products. If our packages fail, our business may be exposed to warranty claims, product return and liability risks, economic damage claims and negative publicity.

We receive warranty claims from our customers from time to time in the ordinary course of our business. If we were to experience an unusually high incidence of warranty claims, we could incur significant costs and our business could be materially and adversely affected. In addition, we are exposed to the product and economic liability risks and the risk of negative publicity affecting our customers. Our sales may decline if any of our customers are sued on a product liability claim. We also may suffer a decline in sales from the negative publicity associated with such a lawsuit or with adverse public perceptions in general regarding our customers' products. Further, if our packages are delivered with defects, we could incur additional development, repair or replacement costs or suffer other economic losses, and our credibility and the market's acceptance of our packages could be harmed.

Covenants in the indentures and agreements governing our current and future indebtedness could restrict our operating flexibility.

The indentures and agreements governing our existing debt contain, and debt we incur in the future may contain, affirmative and negative covenants that materially limit our ability to take certain actions, including our ability to incur debt, pay dividends and repurchase stock, make certain investments and other payments, enter into certain mergers and consolidations, engage in sale leaseback transactions and encumber and dispose of assets. In addition, certain of our debt agreements contain, and our future debt agreements may contain, financial covenants and ratios.

The breach of any of these covenants by us, or the failure by us to meet any of the financial ratios or conditions, could result in a default under any or all of such indebtedness. If a default occurs under any such indebtedness, all of the outstanding obligations thereunder could become immediately due and payable, which could result in a default under our other outstanding debt and could lead to an acceleration of obligations related to other outstanding debt. The existence of such a default or event of default could also preclude us from borrowing funds under our revolving credit facilities. Our ability to comply with the provisions of the indentures, credit facilities and other agreements governing our outstanding debt and indebtedness we may incur in the future can be affected by events beyond our control, and a default under any debt instrument, if not cured or waived, could have a material adverse effect on us.

We may decrease or suspend our quarterly dividend, and any decrease in or suspension of the dividend could cause our stock price to decline.

Since October 2020, we have paid a regular quarterly cash dividend on our outstanding common stock. However, the payment, amount and timing of future cash dividends are subject to the final determination each quarter by our Board of Directors or a committee thereof that there are sufficient funds available to lawfully pay a dividend, that the dividend is compliant with the applicable restrictions in our debt agreements and that the payment of the dividend remains in our and our stockholders' best interests. The determination will be based on our results of operations, financial condition, cash requirements, debt restrictions and other factors. Given these considerations, we may increase or decrease the amount of the dividend at any time and may also decide to vary the timing of or suspend the payment of dividends in the future. Any decrease or suspension of dividend payments could cause our stock price to decline.

We have significant severance plan obligations associated with our manufacturing operations in Korea which could reduce our cash flow and negatively impact our financial condition.

Our subsidiary in Korea maintains an unfunded severance plan, under which we have an accrued liability of \$51.8 million as of September 30, 2023. The plan covers certain employees that were employed prior to August 1, 2015. In the event of a significant layoff or other reduction in our labor force in Korea, our subsidiary in Korea would be required to make lump-sum severance payments under the plan, which could have a material adverse effect on our liquidity, financial condition and cash flows. We have made, and may in the future make, offers to some or all of the covered employees the option to convert from the severance plan to a defined contribution plan. Some employees have accepted previous offers, and future offers to make similar conversions could impact the timing of future payments, reducing our cash flow and materially and adversely affecting our financial condition.

James J. Kim and members of his family can effectively determine or substantially influence the outcome of all matters requiring stockholder approval.

As of September 30, 2023, James J. Kim, the Executive Chairman of our Board of Directors, Susan Y. Kim, the Executive Vice Chairman of our Board of Directors, and members of the Kim family and affiliates owned approximately 132.0 million shares, or approximately 54%, of our outstanding common stock. The Kim family also has options to acquire approximately 0.6 million shares. If the options are exercised, the Kim family's total ownership would be an aggregate of approximately 132.6 million shares, or approximately 54% of our outstanding common stock.

In June 2013, the Kim family exchanged convertible notes issued by Amkor in 2009 for approximately 49.6 million shares of common stock (the "Convert Shares"). As of September 30, 2023, the Kim family owns 39.6 million Convert Shares. The Convert Shares owned by the Kim family are subject to a voting agreement. The voting agreement requires the Kim family to vote these shares in a "neutral manner" on all matters submitted to our stockholders for a vote, so that such Convert Shares are voted in the same proportion as all of the other outstanding securities (excluding the other shares owned by the Kim family) that are actually voted on a proposal submitted to Amkor's stockholders for approval. The Kim family is not required to vote in a "neutral manner" any Convert Shares that, when aggregated with all other voting shares held by the Kim family, represent 41.6% or less of the total then-outstanding voting shares of our common stock. The voting agreement for the Convert Shares terminates upon the earliest of (i) such time as the Kim family no longer beneficially owns any of the Convert Shares, (ii) consummation of a change of control (as defined in the voting agreement) or (iii) the mutual agreement of the Kim family and Amkor.

Mr. Kim and his family and affiliates, acting together, have the ability to effectively determine or substantially influence matters submitted for approval by our stockholders by voting their shares or otherwise acting by written consent, including the election of our Board of Directors. There is also the potential, through the election of members of our Board of Directors, that the Kim family could substantially influence matters decided upon by our Board of Directors. This concentration of ownership may also have the effect of impeding a merger, consolidation, takeover or other business consolidation involving us, or discouraging a potential acquirer from making a tender offer for our shares, and could also negatively affect our stock's market price or decrease any premium over market price that an acquirer might otherwise pay. Concentration of ownership also reduces the public float of our common stock. There may be less liquidity and higher price volatility for the stock of companies with a smaller public float compared to companies with broader public ownership. Also, the sale or the prospect of the sale of a substantial portion of the Kim family shares may cause the market price of our stock to decline significantly.

General Risk Factors

The loss of certain customers or reduced orders or pricing from existing customers may have a material adverse effect on our operations and financial results.

We have derived and expect to continue to derive a large portion of our revenues from a small group of customers during any particular period due in part to the concentration of market share in the semiconductor industry. Our ten largest customers accounted for, in the aggregate, 65% of our net sales for the year ended December 31, 2022. In addition, we have significant customer concentration within our end markets. The loss of a significant customer, a business combination among our customers, a reduction in orders or decrease in price from a significant customer or disruption in any of our significant commercial arrangements may result in a decline in our sales and profitability and could have a material adverse effect on our business, liquidity, results of operations, financial condition and cash flows.

The demand for our services from each customer is directly dependent upon that customer's financial health, level of business activity and purchasing decisions, the quality and price of our services, our cycle time and delivery performance, the customer's qualification of additional competitors on products we package or test and a number of other factors. Each of these factors could vary significantly from time to time resulting in the loss or reduction of customer orders, and we cannot be sure that our key customers or any other customers will continue to place orders with us in the future at the same levels as in past periods.

For example, as seen in the automotive end market in 2020, the Covid-19 pandemic and restrictions imposed by governmental authorities to mitigate the spread of Covid-19 in our customers' end markets may decrease demand for our customers' products and services, thereby adversely impacting their demand for our services.

In addition, from time to time, we may acquire or build new facilities or migrate existing business among our facilities. In connection with these facility changes or new facility constructions, our customers require us to qualify the new facilities even though we have already qualified to perform the services at our other facilities. We cannot assure that we will successfully qualify facility changes, that we will complete construction of new facilities in a timely manner or that our customers will not qualify our competitors and move the business for such services.

The Covid-19 pandemic has impacted, and may impact in the future, the supply chain and consumer demand for our customers' products and services, and such impact on the supply chain and consumer demand may ultimately have a material and adverse effect on our business, results of operations and financial condition.

The impacts of the Covid-19 pandemic have varied, and may continue to vary, by location, by industry and by end market. We, our suppliers and our customers have been disrupted by worker illness and absenteeism, quarantines and restrictions on employees' ability to work, office and factory closures, disruptions to ports and other shipping infrastructure and border closures or other travel or health-related restrictions. Restrictions on our workforce or access to our manufacturing facilities, or similar limitations for our suppliers, or restrictions or disruptions of transportation in order to contain the spread of Covid-19 have caused, and may cause in the future, disruptions to our supply chain in connection with the sourcing of equipment, supplies and other materials, and similar restrictions in the future could limit our capacity to meet customer demand and have a material adverse effect on our business, results of operations and financial condition. The resumption of normal business operations after any such restrictions are lifted may be delayed or constrained by lingering effects of the Covid-19 pandemic on our suppliers or customers or both, and additional restrictions may be implemented in response to the emergence of new variants or re-emergence of Covid-19. Additionally, other national, regional and local governments have implemented, and may implement in the future, restrictions to mitigate the spread of Covid-19, the emergence of new variants, or the re-emergence of Covid-19 in jurisdictions in which we, our customers and our suppliers operate (such as the government-mandated lockdown of our Shanghai factory during the second quarter of 2022), and such restrictions may materially and adversely impact our operations and the operations of our customers and supply chain disruptions.

The spread of Covid-19 caused us to modify our business practices (including corporate hygiene protocols at factories, restricting employee travel and employee work locations and cancelling physical participation in meetings, events and conferences) and, while the long-term impact of the Covid-19 pandemic remains uncertain, we have retained many of those enhanced measures as part of our commitment to protect the health and safety of our employees. We may also take further actions in the future as may be required by government authorities or that we determine to be in the best interests of our employees, customers and suppliers. There is no certainty that such measures will be sufficient to mitigate the future impact of the Covid-19 pandemic, and our ability to perform critical functions could be harmed.

Our substantial indebtedness could have a material adverse effect on our financial condition and prevent us from fulfilling our obligations.

We have a substantial amount of debt, and the terms of the agreements governing our indebtedness allow us and our subsidiaries to incur more debt, subject to certain limitations. As of September 30, 2023, our total debt balance was \$1,097.1 million, of which \$149.9 million was classified as a current liability and \$568.0 million was collateralized indebtedness at our subsidiaries. We may consider investments in joint ventures, increased capital expenditures, refinancings or acquisitions which may increase our indebtedness. If new debt is added to our consolidated debt level, the related risks that we face could increase.

Our substantial indebtedness could:

- make it more difficult for us to satisfy our obligations with respect to our indebtedness, including our obligations under our indentures to purchase notes tendered as a result of a change in control of Amkor;
- increase our vulnerability to general adverse economic and industry conditions;
- limit our ability to fund future working capital, capital expenditures, research and development and other business opportunities, including joint ventures and acquisitions;
- require us to dedicate a substantial portion of our cash flow from operations to service payments of interest and principal on our debt, thereby
 reducing the availability of our cash flow to fund future working capital, capital expenditures, research and development expenditures and other
 general corporate requirements;
- increase the volatility of the price of our common stock;
- limit our flexibility to react to changes in our business and the industry in which we operate;
- place us at a competitive disadvantage to any of our competitors that have less debt;
- limit, along with the financial and other covenants in our indebtedness, our ability to borrow additional funds;
- limit our ability to refinance our existing indebtedness, particularly during periods of adverse credit market conditions when refinancing indebtedness may not be available under interest rates and other terms acceptable to us or at all; and
- · increase our cost of borrowing.

We are exposed to fluctuations in interest rates and changes in credit risk, which could have a material adverse impact on our earnings as it relates to the market value of our investment portfolio.

We maintain an investment portfolio of various holdings, types and maturities. Our portfolio includes available-for-sale debt investments, the values of which are subject to market price volatility resulting from interest rate movements, changes in credit risk and financial market conditions. If such investments suffer market price declines, we may recognize in earnings the decline in the fair value of our investments below their cost basis when the decline is judged to be an impairment, including an allowance for credit loss.

We may have difficulty funding liquidity needs.

We assess our liquidity based on our current expectations regarding sales and operating expenses, capital spending, dividend payments, stock repurchases, debt service requirements and other funding needs. We fund our operations, including capital expenditures and other investments and servicing principal and interest obligations with respect to our debt, from cash flows from our operations, existing cash and cash equivalents, borrowings under available debt facilities, or proceeds from any additional debt or equity financing. Our liquidity is affected by, among other factors, volatility in the global economy and credit markets, the performance of our business, our capital expenditures and other investment levels, other uses of our cash, including any payments of dividends and purchases of stock under any stock repurchase program, any acquisitions or investments in joint ventures and any decisions we might make to either repay debt and other long-term obligations out of our operating cash flows or refinance debt at or prior to maturity with the proceeds of debt or equity financings.

Servicing our current and future customers requires that we incur significant operating expenses and continue to make significant capital expenditures and other investments, and the amount of our capital expenditures for 2023 and thereafter may vary materially and will depend on several factors. These factors include, among others, the amount, timing and implementation of our capital projects, the performance of our business, economic and market conditions, advances in technology, the cash needs and investment opportunities for the business, the need for additional capacity and facilities and the availability of cash flows from operations or financing.

The health of the worldwide banking system and capital markets also affects our liquidity. If financial institutions that have extended credit commitments to us are adversely affected by the conditions of the U.S., foreign or international

banking system and capital markets (including as a result of rising interest rates, economic downturns or other developments), they may refuse or be unable to fund borrowings under their credit commitments to us. The U.S. Federal Reserve has raised interest rates several times during 2022 and 2023 and has signaled the possibility of further rate increases in the near term. Volatility in the banking system and capital markets, as well as any further increase in interest rates or adverse economic, political, public health or other global conditions, could also make it difficult or more expensive for us to maintain our existing credit facilities or refinance our debt.

The trading price of our common stock has been, and is likely to continue to be, highly volatile and could be subject to wide fluctuations. Such fluctuations could impact our decision or ability to utilize the equity markets as a potential source of our funding needs in the future.

In addition, there is a risk that we could fail to generate the necessary net income or operating cash flows to meet the funding needs of our business due to a variety of factors, including the other factors discussed in this "Risk Factors" section. If we fail to generate the necessary cash flows or we are unable to access the capital markets when needed, our liquidity could be materially and adversely impacted.

We face risks trying to attract, retain or replace qualified employees to support our operations.

Our success depends to a significant extent upon the continued service of our key senior management, sales and technical personnel, any of whom may be difficult to replace. Competition for qualified employees is intensifying, accelerated by increasing competition in the semiconductor industry for talent to meet strong demand, and our business could be materially and adversely affected by the loss of the services of any of our existing key personnel, including senior management and technical talent, as a result of competition or for any other reason. Labor shortages could also result in higher wages that would increase our labor costs, which could reduce our profits. Although we have entered into agreements with our Chief Executive Officer and certain other executives that would prevent them from working for, or impose financial penalties for doing business with, our competitors in the event that those executives cease working for us, we cannot assure you that we will be successful in our efforts to retain or replace key employees or in hiring and properly training sufficient numbers of qualified personnel and in effectively managing our growth. Our inability to attract, retain, motivate and train qualified new personnel could have a material adverse effect on our business.

If we fail to maintain an effective system of internal controls, we may not be able to accurately report financial results or prevent fraud.

Our internal controls over financial reporting may not prevent or detect misstatements because of their inherent limitations, including the possibility of human error, the circumvention or overriding of controls, fraud or corruption. Therefore, even effective internal controls can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements. In addition, projections concerning the effectiveness of internal controls in future periods are subject to the risk that our internal controls may become inadequate because of changes in conditions, or that the degree of compliance with our policies or procedures may deteriorate.

We assess our internal controls and systems on an ongoing basis, and from time-to-time, we update and make modifications to our global enterprise resource planning system. We have implemented several significant enterprise resource planning and shop floor management systems and expect to implement additional similar systems in the future. There is a risk that deficiencies may occur that could constitute significant deficiencies or, in the aggregate, a material weakness.

If we fail to remedy any deficiencies or maintain the adequacy of our internal controls, we could be subject to regulatory scrutiny, civil or criminal penalties or shareholder litigation. In addition, failure to maintain adequate internal controls could result in financial statements that do not accurately reflect our operating results or financial condition.

We face risks in connection with the continuing development and implementation of changes to, and maintenance and security of, our information technology systems.

We depend on our information technology systems for many aspects of our business. Our systems may be susceptible to damage, disruptions or shutdowns due to failures during the process of upgrading, replacing or maintaining software, databases or components thereof, power outages, hardware failures, interruption or failures of third-party provider systems, computer viruses, attacks by computer hackers, ransomware attacks, telecommunication failures, user errors, malfeasance or catastrophic events. Such events have occurred in the past and may occur in the future. Cybersecurity

breaches could result in unauthorized disclosure of confidential information or disruptions to our operations. While we have not experienced a material information security breach, we cannot be sure that such a breach will not occur in the future. The IT systems in our factories are at varying levels of sophistication and maturity as the factories have different sets of products, processes and customer expectations. Some of our key software has been developed by our own programmers, and this software may not be easily integrated with other software and systems. From time to time, we make additions or changes to our information technology systems. For example, we continue to further integrate our Japan operations' information technology systems into our existing systems and processes. We face risks in connection with current and future projects to install or integrate new information technology systems or upgrade our existing systems. These risks include:

- delays in the design and implementation of the system;
- costs may exceed our plans and expectations; and
- disruptions resulting from the implementation, integration or cybersecurity breach of the systems may impact our ability to process transactions
 and delay shipments to customers, impact our results of operations or financial condition or harm our control environment.

Our business could be materially and adversely affected if our information technology systems are disrupted or if we are unable to successfully install new systems or improve, upgrade, integrate or expand upon our existing systems. We maintain insurance policies for various types of information security risks, including network security and privacy liability for third party claims, and business interruption and system failure reimbursement coverage, but we do not carry insurance for all the above referred risks. With regard to the insurance we do maintain, we cannot assure you that it would be sufficient to cover all of our potential losses. As a result, our business, financial condition, results of operations and cash flows could be materially and adversely affected by a disruption, failure or breach of our information technology systems.

We face challenges as we integrate diverse operations.

We have experienced, and expect to continue to experience, change in the scope and complexity of our operations resulting primarily from existing and future facility and operational consolidations, facility and operational expansions, strategic acquisitions, joint ventures and other partnering arrangements. Some of the risks from these activities include those associated with the following:

- increasing the scope, geographic diversity and complexity of our operations;
- · conforming an acquired company's standards, practices, systems and controls with our operations;
- increasing complexity from combining recent acquisitions of an acquired business;
- · unexpected losses of key employees or customers of an acquired business;
- · difficulties in the assimilation of acquired operations, technologies or products; and
- diversion of management and other resources from other parts of our operations and adverse effects on existing business relationships with customers.

In connection with these activities, we may:

- incur costs associated with personnel reductions and voluntary retirement programs;
- record restructuring charges to cover costs associated with facility consolidations and related cost reduction initiatives;
- use a significant portion of our available cash;
- incur substantial debt;
- issue equity securities, which may dilute the ownership of current stockholders;

- · incur or assume known or unknown contingent liabilities; and
- incur large, immediate accounting write offs and face antitrust or other regulatory inquiries or actions.

For example, the businesses we have acquired had, at the time of acquisition, multiple systems for managing their own production, sales, inventory and other operations. Migrating these businesses to our systems typically is a slow, expensive process requiring us to divert significant resources from other parts of our operations. We may continue to face these challenges in the future. As a result of the risks discussed above, the anticipated benefits of these or other future acquisitions, consolidations and partnering arrangements may not be fully realized, if at all, and these activities could have a material adverse effect on our business, financial condition and results of operations.

We could suffer adverse tax and other financial consequences if there are changes in tax laws or taxing authorities do not agree with our interpretation of applicable tax laws, including whether we continue to qualify for conditional reduced tax rates, or if we are required to establish or adjust valuation allowances on deferred tax assets.

We earn a substantial portion of our income in foreign countries, and our operations are subject to tax in multiple jurisdictions with complicated and varied tax regimes. Tax laws and income tax rates in these jurisdictions are subject to change due to economic and political conditions. Changes in the tax laws of foreign jurisdictions could arise as a result of the base erosion and profit shifting project that was undertaken by the Organization for Economic Cooperation and Development ("OECD"). The OECD, which represents a coalition of member countries, recommended changes to long-standing tax principles related to transfer pricing and has developed model rules including establishing a global minimum corporate income tax tested on a jurisdictional basis (the "Pillar Two Model Rules"). Some countries have already started to implement laws based on the Pillar Two Model Rules. Changes in U.S. or foreign tax laws, including new or modified guidance with respect to existing tax laws, could have a material adverse impact on our liquidity, results of operations, financial condition and cash flows.

Our tax liabilities are based, in part, on our corporate structure, interpretations of various U.S. and foreign tax laws, including withholding tax, compliance with conditional reduced tax rate requirements, application of changes in tax law to our operations and other relevant laws of applicable taxing jurisdictions. From time to time, taxing authorities may conduct examinations of our income tax returns and other regulatory filings. We cannot assure you that the taxing authorities will agree with our interpretations, including whether we continue to qualify for conditional reduced tax rates. If they do not agree, we may seek to enter into settlements with the taxing authorities. We may also appeal a taxing authority's determination to the appropriate governmental authorities, but we cannot be sure we will prevail. If we do not prevail or if we enter into settlements with taxing authorities, we may have to make significant payments or otherwise record charges (or reduce tax assets) that materially and adversely affect our results of operations, financial condition and cash flows. Additionally, certain of our subsidiaries operate under conditional reduced tax rates, which will expire in whole or in part at various dates in the future. As those conditional reduced tax rates expire, we expect that our tax expense will increase as income from those jurisdictions becomes subject to higher statutory income tax rates, thereby reducing our liquidity and cash flow.

We monitor on an ongoing basis our ability to utilize our deferred tax assets and whether there is a need for a related valuation allowance. In evaluating our ability to recover our deferred tax assets, in the jurisdiction from which they arise, we consider all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, projected future taxable income, tax-planning strategies and recent results of operations. In the event taxable income falls short of current expectations, we may need to establish a valuation allowance against such deferred tax assets that, if required, could materially and adversely affect our results of operations.

Environmental, health and safety liabilities and expenditures could have a material adverse effect on our business, results of operation and financial condition.

Environmental, health and safety laws and regulations in places we do business impose various controls on the use, storage, handling, discharge and disposal of chemicals used or generated in, or emitted by, our production processes, on the factories we occupy and on the materials contained in semiconductor products. For example, at our foreign facilities we produce liquid waste when semiconductor wafers are diced into chips with the aid of diamond saws, then cooled with running water. In addition, semiconductor packages have historically utilized metallic alloys containing lead within the interconnect terminals typically referred to as leads, pins or balls, and the European Union's Restriction of Hazardous Substances in Electrical and Electronic Equipment directive and similar laws in other jurisdictions, including China,

impose strict restrictions on the placement into the market of electrical and electronic equipment containing lead and certain other hazardous substances. We may become liable under these and other environmental, health and safety laws and regulations, including for the cost of compliance and cleanup of any disposal or release of hazardous materials arising out of our former or current operations, or otherwise as a result of the emission of greenhouse gases ("GHGs") or other chemicals, the existence of hazardous materials on our properties or the existence of hazardous substances in the products for which we perform our services. We could also be held liable for damages, including fines, penalties and the cost of investigations and remedial actions, and we could be subject to revocation of permits, which may materially and adversely affect our ability to maintain or expand our operations. Additionally, if Amkor is unable to align its environmental, health and safety practices with shifting customer preferences, we could suffer reputational harm, which could have a material and adverse effect on our business, results of operations, liquidity and cash flows.

There has also been an increase in public attention and industry and customer focus on the materials contained in semiconductor products, the environmental impact of semiconductor operations and the risk of chemical releases from such operations, climate change, sustainability and related environmental concerns. This increased focus on sustainability and the environmental impact of semiconductor operations and products has caused industry groups and customers to impose additional requirements on us and our suppliers, sometimes exceeding regulatory standards. These industry and customer requirements include increased tracking and reporting of GHG emissions, reductions in waste and wastewater from operations, additional reporting on the materials and components used in the products for which we perform our services, and the use of renewable energy sources in our factory operations. In addition, recent and ongoing changes to climate change regulation could increase our compliance costs, including as a result of carbon pricing impacts on electrical utilities as well as increased indirect costs resulting from our customers, suppliers, and other stakeholders incurring additional compliance costs that are passed on to us. We have started to incur compliance costs within our existing manufacturing infrastructure, and such costs may increase as we expand our manufacturing capacity. To comply with these additional requirements, we may need to procure additional, or increase the use of, renewable energy, procure additional equipment or make factory or process changes, which could result in increased operating costs.

Our business and financial condition has been adversely affected, and could be adversely affected in the future, by natural disasters and other calamities, health conditions or pandemics, political instability, hostilities or other disruptions.

We have significant packaging and test services and other operations in China, Japan, Korea, Malaysia, the Philippines, Portugal, Singapore and Taiwan, and a new factory in Vietnam. Such operations are or could be subject to: natural disasters, such as earthquakes, tsunamis, typhoons, floods, droughts, volcanoes and other severe weather and geological events, and other calamities, such as fire; the outbreak of infectious diseases (such as Covid-19 and other coronaviruses, Ebola or flu); industrial strikes; government-imposed travel restrictions or quarantines; breakdowns of equipment; difficulties or delays in obtaining materials, equipment, utilities and services; political events or instability; acts of war or armed conflict (such as ongoing conflicts in Ukraine and Israel); terrorist incidents and other hostilities in regions where we have facilities; and industrial accidents and other events, that could disrupt or even shut down our operations. While our global manufacturing footprint allows us to shift production to other factories without substantial cost or production delays, certain of our services are currently performed using equipment located in one or a subset of our factories. A major disruption or shutdown of any such factory could completely impair our ability to perform those services or require us to shift them to another location. As a result, our ability to fulfill customer orders may be impaired or delayed, and we could incur significant losses.

For example, in April 2016, our Kumamoto factory was damaged by earthquakes in Japan. As a result of these earthquakes, our sales were reduced due to the temporary disruption in operations, and we incurred earthquake-related costs for damaged inventory, buildings and equipment. Our suppliers and customers also have significant operations in such locations, and this could compound the effect of any such disruption. In the event of such a disruption or shutdown, we may be unable to reallocate production to other facilities in a timely or cost-effective manner (if at all), and we may not have sufficient capacity, or customer approval, to service customer demands in our other facilities. A natural disaster or other calamity, political instability, the occurrence of hostilities or other event that results in a prolonged disruption to

our operations, or the operations of our customers or suppliers, could have a material adverse effect on our business, financial condition, results of operations and cash flows.

In addition, some of the processes that we utilize in our operations place us at risk of fire and other damage. For example, highly flammable gases are used in the preparation of wafers holding semiconductor devices for flip chip packaging.

We maintain insurance policies for various types of property, casualty and other risks, but we do not carry insurance for all the above referred risks. With regard to the insurance we do maintain, we cannot assure you that it would be sufficient to cover all of our potential losses. As a result, our business, financial condition, results of operations and cash flows could be materially and adversely affected by natural disasters and other calamities.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Issuer Repurchase of Equity Securities

The following table provides information regarding repurchases of our common stock during the three months ended September 30, 2023.

Period	Total Number of Shares Purchased (a)	Average Price Paid Per Share (\$)	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs (b)	•	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs (\$) (b)	
July 1 - July 31	_	\$ _	_	\$	91,586,032	
August 1 - August 31	618	25.38	_		_	
September 1 - September 30	_	_	_		_	
Total	618	\$ 25.38				

- (a) Represents shares of common stock surrendered to us to satisfy tax withholding obligations associated with the shares issued to employees in connection with share-based compensation.
- (b) On August 30, 2011, we announced that our Board of Directors had authorized the repurchase of up to \$150.0 million of our common stock, exclusive of any fees, commissions or other expenses, under the Stock Repurchase Program. On February 1, 2012, we announced that our Board of Directors had authorized an additional \$150.0 million for the repurchase of our common stock under the Stock Repurchase Program, resulting in a total repurchase authorization under the Stock Repurchase Program of \$300.0 million. Pursuant to the Stock Repurchase Program, we made no common stock purchases for the three months ended September 30, 2023. In August 2023, our Board of Directors terminated the Stock Repurchase Program. No amounts were outstanding under this Stock Repurchase Program as of August 2023 and thereafter.

Item 3. Defaults Upon Senior Securities

None.

Item 4. Mine Safety Disclosures

Not applicable.

Item 5. Other Information

During the three months ended September 30, 2023, no director or officer of the Company adopted or terminated a "Rule 10b5-1 trading arrangement" or "non-Rule 10b5-1 trading arrangement," as such terms are defined in paragraphs (a) and (c), respectively, of Item 408 of Regulation S-K promulgated under the Securities Act of 1933, as amended.

Item 6. Exhibits

		Incorporated by Reference			Included Herewith	
Exhibit Number	Exhibit Description	Form	Period Ending	Exhibit	Filing Date	
31.1	Certification of Guillaume Marie Jean Rutten, Chief Executive Officer of Amkor Technology, Inc., pursuant to Rule 13a-14(a) under the Securities Exchange Act of 1934, as amended					X
31.2	Certification of Megan Faust, Chief Financial Officer of Amkor Technology, Inc., pursuant to Rule 13a-14(a) under the Securities Exchange Act of 1934, as amended					X
32	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*					X
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					X
101.SCH	Inline XBRL Taxonomy Extension Schema Document					X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document					X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document					X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document					X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document					X
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					X

^{*}Furnished herewith.

SIGNATURES

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

AMKOR TECHNOLOGY, INC.

By: /s/ Megan Faust

Megan Faust

Executive Vice President,

Chief Financial Officer and Treasurer

(Principal Financial Officer and Principal Accounting Officer)

Date: November 1, 2023

SECTION 302 CERTIFICATION

- I, Guillaume Marie Jean Rutten, certify that:
 - 1. I have reviewed this Quarterly Report on Form 10-Q of Amkor Technology, Inc.;
 - 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
 - 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
 - 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
 - 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of 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.

/s/ Guillaume Marie Jean Rutten

Guillaume Marie Jean Rutten
President and Chief Executive Officer

November 1, 2023

SECTION 302 CERTIFICATION

I, Megan Faust, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Amkor Technology, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(f)) 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 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.

/s/ Megan Faust

Megan Faust Executive Vice President, Chief Financial Officer and Treasurer

November 1, 2023

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

For purposes of Section 1350 of Chapter 63 of Title 18 of the United States Code, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, each of the undersigned officers of Amkor Technology, Inc., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that the Company's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2023 (the "Form 10-Q") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) and that the information contained in the Form 10-Q fairly presents in all material respects the financial condition and results of operations of the Company.

/s/ Guillaume Marie Jean Rutten

By: Guillaume Marie Jean Rutten

Title: President and Chief Executive Officer

Date: November 1, 2023

/s/ Megan Faust

By: Megan Faust

Title: Executive Vice President,

Chief Financial Officer and Treasurer

Date: November 1, 2023