UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 10-Q

		FORM 10-Q		
☑ QUARTE	RLY REPORT I	PURSUANT TO SE	ECTION 13 OR 15(d) OF THE	
	SECURITI	ES EXCHANGE A	CT OF 1934	
	For the quarterl	y period ended Sep	tember 30, 2022	
		OR		
☐ TRANSIT	TON REPORT I	PURSUANT TO SE	ECTION 13 OR 15(d) OF THE	
	SECURITI	ES EXCHANGE A	CT OF 1934	
For the tra	insition period fr	rom	to	
	Comm	ission file number:	1-13165	
	AR	RTIVION, I	NC.	
	(Exact name	of registrant as specified	d in its charter)	
Delaware			59-2417093	
(State or other jurisdiction of incorporation or organization			(I.R.S. Employer Identification No.	
1655 Roberts Boulevard, NW, Kenne	saw, Georgia		30144	
(Address of principal executive of	offices)		(Zip Code)	
		(770) 419-3355		
	(Registrant's tel	ephone number, inc	cluding area code)	
		-	on 12(b) of the Act:	
				which registered
Title of each class		Symbol(s) ORT	Name of each exchange or	
Common Stock, \$0.01 par value	A	OKI	New York Stock I	Exchange
Indicate by check mark whether the registrant (1) during the preceding 12 months (or for such short requirements for the past 90 days. Yes \boxtimes No \square				
Indicate by check mark whether the registrant has Regulation S-T (§232.405 of this chapter) during the Yes \boxtimes No \square				
Indicate by check mark whether the registrant is a emerging growth company. See the definitions company" in Rule 12b-2 of the Exchange Act.				
Large Accelerated Filer	\boxtimes	Accelerated Filer		
Non-accelerated Filer		Smaller Reportin	g Company	
		Emerging Growth	h Company	
If an emerging growth company, indicate by check or revised financial accounting standards provided				d for complying with any nev
Indicate by check mark whether the registrant is a s	hell company (a	s defined in Rule 12	2b-2 of the Exchange Act). Yes ☐ No [X
Indicate the number of shares outstanding of each of	of the issuer's cla	sses of common sto	ock, as of the latest practicable date.	
Class			Outstanding at October	28, 2022
Common Stock, \$0.01 par va	lue		40,329,481	
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Part I – FINANCIAL INFORMATION

Item 1. Financial Statements.

Artivion, Inc. and Subsidiaries Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income

In Thousands, Except Per Share Data (Unaudited)

	Three Months Ended September 30,					Nine Months Ended September 30,			
		2022		2021		2022		2021	
Revenues:									
Products	\$	55,248	\$	53,107	\$	171,726	\$	162,528	
Preservation services		21,590		19,100	_	62,665		56,914	
Total revenues		76,838		72,207		234,391		219,442	
Cost of products and preservation services:									
Products		17,743		15,503		53,381		46,592	
Preservation services		10,351		8,915		29,375		26,710	
Total cost of products and preservation services		28,094		24,418		82,756		73,302	
Gross margin		48,744		47,789		151,635		146,140	
Operating expenses:									
General, administrative, and marketing		41,051		39,053		118,989		118,521	
Research and development		11,799		9,972		30,575		26,086	
Total operating expenses		52,850		49,025	-	149,564		144,607	
Gain from sale of non-financial assets				(15,923)				(15,923)	
Operating (loss) income		(4,106)		14,687		2,071		17,456	
Interest expense		4,805		4,100		12,854		12,995	
Interest income		(40)		(18)		(86)		(60)	
Other expense, net		3,661		2,661		7,564		3,261	
(Loss) income before income taxes		(12,532)		7,944		(18,261)		1,260	
Income tax expense (benefit)		1,181		(2,638)		3,100		(4,006)	
Net (loss) income	\$	(13,713)	\$	10,582	\$	(21,361)	\$	5,266	
(Loss) income per share:									
Basic	\$	(0.34)	\$	0.27	\$	(0.53)	\$	0.13	
Diluted	\$	(0.34)	\$	0.26	\$	(0.53)	\$	0.13	
Weighted-average common shares outstanding:									
Basic		40,115		39,086		39,999		38,924	
Diluted		40,115		44,453		39,999		39,496	
Net (loss) income	\$	(13,713)	\$	10,582	\$	(21,361)	\$	5,266	
Other comprehensive loss:		,							
Foreign currency translation adjustments		(16,895)		(5,010)		(35,466)		(12,327)	
Comprehensive (loss) income	\$	(30,608)	\$	5,572	\$	(56,827)	\$	(7,061)	

Artivion, Inc. and Subsidiaries Condensed Consolidated Balance Sheets

In Thousands

Current sucts: Current sucts: Current sucts: Current sucts: S. 3.7.572 S. 5.55 Current sucts: S. 3.7.572 S. 5.55 Current sucts: S. 7.598 S.		Sep	September 30, 2022		December 31, 2021		
Current saves: S 3,5,75 \$		J)	Jnaudited)				
Cash and each equivalents \$ 37,572 \$ 53 Other neceivables, net 7,804 5 Other neceivables 7,804 7 Deferred preservation cests, net 45,433 42 Prepaid capsines and other 16,535 14 Goodwell 234,773 20 Goodwell 30,236 37 Goodwell 30,236 37 Opperating lesse right-of-size assets, net 41,320 18 Opperating lesse right-of-size assets, net 6,132 2 Opperating lesse right-of-size assets, net 3,112 34 Deferred annual convertex assets 6,103 2 Operating lesse right-of-size assets, net 6,103 2 Ober intangibles, net 3,112 34 Deform convertex assets 5,102 3 Operating lesses right-of-size assets, net 1,102 3 Ober intangibles, net 1,102 3 Total assets 5,102 3 Total assets 1,102 3 Accumed compenses	ASSETS						
Tack receivables, net	Current assets:						
Other recevables (moverage) 7,894 5 Deferred preservation costs, net 45,483 42 Prepaid expenses and other 61,815 14 Goodwill 237,792 20 Goodwill 148,000 166 Operating lease right-of-use usaets, net 148,000 166 Opperating lease right-of-use usaets, net 30,102 3 Operating lease right-of-use usaets, net 30,102 3 Operating lease right-of-use usaets, net 30,102 3 Operating lease right-of-use usaets, net 30,102 3 Oberea discourse right-of-use usaets, net 30,102 3 Oberea de compensation 30,102 3 Oberea de compensation 10,002 3 Current insibilities 5,002 3 Current proprion of long-term debt 5,002 3 Current proprion of long-term debt 3,002 3 Current proprion of long-term debt 3,002 3 Current proprion of long-term debt 3,002 3 Compelered compensation liabilitie </td <td>Cash and cash equivalents</td> <td>\$</td> <td>37,572</td> <td>\$</td> <td>55,010</td>	Cash and cash equivalents	\$	37,572	\$	55,010		
Inventions, set	Trade receivables, net		57,159		53,019		
Deferend preservation oots, net 15,483 4.2 Prepaid cepenses and other 16,881 14 Total current assets 237,989 247 Goodwill 234,73 250 Acquied technology, net 143,00 146 Property and equipment, net 36,286 37 Ober simulation and technology and equipment, net 13,112 34 Deferred income taxes 7,088 8 Total assets 7,088 8 Total conservation 1,088 7 Accounce to the second seco	Other receivables		7,880		5,086		
Propose despense and other 16,851 14 Total current assets 237,989 247 Goodwill 23,738 250 Acquired technology, net 148,006 166 Operating lease right-of-use assets, net 418,20 35 Other inangibles, net 6,103 2 Other assets 7,088 8 Total assets 7,088 8 Total assets 8,702 9 Total assets 8,702 9 Accreated The August Properties of Contract of Contract Properties of Contract Propertie	Inventories, net		73,044		76,971		
Total current assets 237,999 247 Goodwill 234,773 250 Acquired technology, net 18450 166 Opperating lease right-of-use assets, net 14,200 166 Property and equipment, net 36,126 37 Deferred income taxes 7,088 8 Deferred income taxes 7,088 8 Total assets 7,088 8 Total assets 7,088 8 Total assets 10,112 9,39 LABILITIES AND SHAREHOLDERS' EQUITY Current Itabilities 10,102 9 Accrued exposes 10,088 9 Accrued compensation 10,088 9 Accrued exposes 10,088 9 Current anturities of operating leases 3,306 3 Current potion of long-term debt 1,502 1 Other liabilities 3,667 3 Total current liabilities 4,809 49 Non-current maturities of operating leases 4,809 49	Deferred preservation costs, net		45,483		42,863		
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Page					8,267		
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Contingent consideration 44,800 49 Non-current maturities of operating leases 40,915 44 Non-current finance lease obligation 3,450 4 Deferred income taxes 34,058 28 Deferred compensation liability 5,082 5 Other liabilities 6,652 6 Total liabilities \$ 487,623 \$ 492 Commitments and contingencies Shareholders' equity: Preferred stock — — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 — Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300	T 4 1-1-4		206 674		207.402		
Non-current maturities of operating leases 40,915 44 Non-current finance lease obligation 3,450 4 Deferred income taxes 34,058 28 Deferred compensation liability 5,082 5 Other liabilities 6,652 6 Total liabilities \$ 487,623 \$ 492 Commitments and contingencies Shareholders' equity: Preferred stock — — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 — Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300			,		307,493		
Non-current finance lease obligation 3,450 4 Deferred income taxes 34,058 28 Deferred compensation liability 5,082 5 Other liabilities 6,652 6 Total liabilities \$ 487,623 \$ 492 Commitments and contingencies Shareholders' equity: Preferred stock — — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 — Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, 7) Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, 7) Total shareholders' equity 255,108 300					49,400		
Deferred income taxes 34,058 28 Deferred compensation liability 5,082 5 Other liabilities 6,652 6 Total liabilities \$ 487,623 \$ 492 Commitments and contingencies Shareholders' equity: Preferred stock — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300					44,869		
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Other liabilities 6,652 6 Total liabilities \$ 487,623 492 Commitments and contingencies Shareholders' equity: Preferred stock — — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 — Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14					28,799		
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Commitments and contingencies Shareholders' equity: Preferred stock — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300		•		•	6,484		
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Preferred stock — Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9 Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14 Total shareholders' equity 255,108 300	Commitments and contingencies						
Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021) 418 Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300	Shareholders' equity:						
Additional paid-in capital 334,077 322 Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, 0, 0) Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, 0, 0) Total shareholders' equity 255,108 300			_				
Retained (deficit) earnings (19,386) 1 Accumulated other comprehensive loss (45,353) (9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Common stock (issued shares of 41,816 in 2022 and 41,397 in 2021)		418		414		
Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300	Additional paid-in capital		334,077		322,874		
Accumulated other comprehensive loss (45,353) (9, Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, Total shareholders' equity 255,108 300	Retained (deficit) earnings		(19,386)		1,975		
Treasury stock, at cost, 1,487 shares as of September 30, 2022 and December 31, 2021 (14,648) (14, 648) Total shareholders' equity 255,108 300	Accumulated other comprehensive loss				(9,887		
Total shareholders' equity 255,108 300.					(14,648		
0 743.731 0 703					300,728		
Total lightilities and shareholders' equity (47.71) \ (79.7)	Total liabilities and shareholders' equity	\$	742,731	\$	793,052		

Artivion, Inc. and Subsidiaries Condensed Consolidated Statements of Cash Flows In Thousands

(Unaudited)

(Chaudicu)		Nine Months I September			
		2022	2021		
Net cash flows from operating activities:			2021		
Net (loss) income	\$	(21,361) \$	5,266		
Adjustments to reconcile net (loss) income to net cash from operating activities:					
Depreciation and amortization		17,016	18,008		
Non-cash compensation		9,189	7,471		
Non-cash lease expense		5,656	5,566		
Deferred income taxes		5,097	(8,128)		
Write-down of inventories and deferred preservation costs		3,116	3,987		
Non-cash interest expense		1,372	2,025		
Change in fair value of contingent consideration		(4,600)	4,970		
Gain from sale of non-financial assets		_	(15,923)		
Other		151	678		
Changes in operating assets and liabilities:					
Prepaid expenses and other assets		(1,788)	(2,268)		
Accounts payable, accrued expenses, and other liabilities		(2,103)	65		
Inventories and deferred preservation costs		(5,781)	(16,986)		
Receivables		(10,900)	(8,032)		
Net cash flows used in operating activities		(4,936)	(3,301)		
Net cash flows from investing activities:					
Acquisition of intangible assets		(1,123)	(726)		
Capital expenditures		(6,924)	(10,524)		
Proceeds from sale of non-financial assets, net		_	19,000		
Other		_	722		
Net cash flows (used in) provided by investing activities		(8,047)	8,472		
Net cash flows from financing activities:					
Proceeds from exercise of stock options and issuance of common stock		3,344	3,531		
Redemption and repurchase of stock to cover tax withholdings		(1,791)	(1,898)		
Repayment of term loan		(2,033)	(2,397)		
Payment of debt issuance costs		(_,,,,,	(2,219)		
Other		(300)	(439)		
Net cash flows used in financing activities		(780)	(3,422)		
- to that have a same and the s		(,,,,,	(0,:22)		
Effect of exchange rate changes on cash and cash equivalents		(3,675)	1,418		
(Decrease) increase in cash and cash equivalents		(17,438)	3,167		
•		, , ,			
Cash and cash equivalents beginning of period		55,010	61,958		
Cash and cash equivalents end of period	\$	37,572 \$	65,125		
Cush and cush equivalents the or period	<u> </u>		,		

Artivion, Inc. and Subsidiaries Condensed Consolidated Statements of Shareholders' Equity

In Thousands (Unaudited)

	Com Sto			1	Additional Paid-In Capital	Retained Deficit	cumulated Other nprehensive Loss		asury tock	Sh	Total areholders' Equity
	Shares	Aı	mount					Shares	Amount		
Balance at June 30, 2022	41,744	\$	417	\$	329,871	\$ (5,673)	\$ (28,458)	(1,487)	\$(14,648)	\$	281,509
Net loss	_		_		_	(13,713)	_	_	_		(13,713)
Other comprehensive loss	_		_		_	_	(16,895)	_	_		(16,895)
Equity compensation	7		_		3,233	_	_	_	_		3,233
Exercise of options	9		_		85	_	_	_	_		85
Employee stock purchase plan	58		1		940	_	_	_	_		941
Redemption and repurchase of stock to cover tax withholdings	(2)		_		(52)	_	_	_	_		(52)
Balance at September 30, 2022	41,816	\$	418	\$	334,077	\$(19,386)	\$ (45,353)	(1,487)	\$(14,648)	\$	255,108

	Common Stock			A	Additional Paid-In Capital	Retained Earnings (Deficit)		ccumulated Other mprehensive Loss	Treasury Stock		Total Shareholders' Equity	
	Shares	A	mount						Shares	Amount		
Balance at December 31, 2021	41,397	\$	414	\$	322,874	\$ 1,975	\$	(9,887)	(1,487)	\$(14,648)	\$	300,728
Net loss	_				_	(21,361)		_		_		(21,361)
Other comprehensive loss	_		_		_	_		(35,466)	_	_		(35,466)
Equity compensation	269		2		9,652	_		_	_	_		9,654
Exercise of options	149		2		1,763	_		_	_	_		1,765
Employee stock purchase plan	95		1		1,578	_		_	_	_		1,579
Redemption and repurchase of stock to cover tax withholdings	(94)		(1)		(1,790)	_		_	_	_		(1,791)
Balance at September 30, 2022	41,816	\$	418	\$	334,077	\$(19,386)	\$	(45,353)	(1,487)	\$(14,648)	\$	255,108

Artivion, Inc. and Subsidiaries Condensed Consolidated Statements of Shareholders' Equity (continued)

In Thousands
(Unaudited)

	Com Sto			A	Additional Paid-In Capital	Retained Earnings		cumulated Other nprehensive Loss		easury tock	Sh	Total nareholders' Equity
	Shares	Aı	nount						Shares	Amount		
Balance at June 30, 2021	40,742	\$	407	\$	305,157	\$ 11,493	\$	(574)	(1,487)	\$(14,648)	\$	301,835
Net income	_				_	10,582		_	_	_		10,582
Other comprehensive loss	_		_		_	_		(5,010)	_	_		(5,010)
Equity compensation	8		1		2,990	_		_	_	_		2,991
Exercise of options	18		_		191	_		_	_	_		191
Employee stock purchase plan	50		_		1,019	_		_	_	_		1,019
Redemption and repurchase of stock to cover tax withholdings	(2)		_		(67)	_		_	_	_		(67)
Balance at September 30, 2021	40,816	\$	408	\$	309,290	\$ 22,075	\$	(5,584)	(1,487)	\$(14,648)	\$	311,541
	Common Stock		Additional Paid-In Capital		l Retained Earnings		cumulated Other nprehensive	Treasury Stock		Sh	Total areholders'	
					Capital	Earnings	Inc	come (Loss)				Equity
	Shares	Aı	nount		Capital	Earnings	Inc					
Balance at December 31, 2020	Shares 40,394	A1 \$	nount	\$	316,192		Inc		St	tock	\$	
Balance at December 31, 2020 Net income				\$	•			come (Loss)	Shares	Amount	\$	Equity
,				\$	•	\$ 20,022		come (Loss)	Shares	Amount	\$	Equity 328,713
Net income				\$	•	\$ 20,022		6,743	Shares	Amount	\$	328,713 5,266
Net income Other comprehensive loss				\$	316,192	\$ 20,022 5,266 —		6,743	Shares	Amount	\$	328,713 5,266 (12,327)
Net income Other comprehensive loss Impact of adoption of ASU 2020-06	40,394		404 — — —	\$	316,192 — — — (16,426)	\$ 20,022 5,266 —		6,743	Shares	Amount	\$	328,713 5,266 (12,327) (19,639)
Net income Other comprehensive loss Impact of adoption of ASU 2020-06 Equity compensation	40,394 — — — 252		404 — — —	\$	316,192 ————————————————————————————————————	\$ 20,022 5,266 —		6,743	Shares	Amount	\$	328,713 5,266 (12,327) (19,639) 7,895
Net income Other comprehensive loss Impact of adoption of ASU 2020-06 Equity compensation Exercise of options	40,394 — — — 252 158		404 — — —	\$	316,192 ————————————————————————————————————	\$ 20,022 5,266 —		6,743	Shares	Amount	\$	5,266 (12,327) (19,639) 7,895 1,922

Artivion, Inc. and Subsidiaries Notes to Condensed Consolidated Financial Statements (Unaudited)

1. Basis of Presentation and Summary of Significant Accounting Policies

Overview

The accompanying Condensed Consolidated Financial Statements include the accounts of Artivion, Inc. and its subsidiaries ("Artivion," the "Company," "we," or "us"). All significant intercompany accounts and transactions have been eliminated in consolidation. The accompanying Condensed Consolidated Balance Sheet as of December 31, 2021 has been derived from audited financial statements. The accompanying unaudited Condensed Consolidated Financial Statements as of, and for the three and nine months ended, September 30, 2022 and 2021 have been prepared in accordance with (i) accounting principles generally accepted in the US for interim financial information and (ii) the instructions to Form 10-Q and Rule 10-01 of Regulation S-X of the US Securities and Exchange Commission (the "SEC"). Accordingly, such statements do not include all the information and disclosures that are required by accounting principles generally accepted in the US for a complete presentation of financial statements. In the opinion of management, all adjustments (including those of a normal, recurring nature) considered necessary for a fair presentation have been included. Operating results for the three and nine months ended September 30, 2022 are not necessarily indicative of the results that may be expected for the year ending December 31, 2022. These Condensed Consolidated Financial Statements should be read in conjunction with the Consolidated Financial Statements and Notes included in Artivion's Annual Report on Form 10-K for the year ended December 31, 2021 filed with the SEC on February 22, 2022.

Significant Accounting Policies

A summary of our significant accounting policies is included in Note 1 of the "Notes to Consolidated Financial Statements" contained in our Form 10-K for the year ended December 31, 2021. Management believes that the consistent application of these policies enables us to provide users of the financial statements with useful and reliable information about our operating results and financial condition. The Condensed Consolidated Financial Statements are prepared in accordance with accounting principles generally accepted in the US, which require us to make estimates and assumptions. We did not experience any significant changes during the three and nine months ended September 30, 2022 in any of our Significant Accounting Policies from those contained in our Form 10-K for the year ended December 31, 2021.

New Accounting Standards

Recently Adopted

In August 2020 the Financial Accounting Standards Board (the "FASB") issued Accounting Standard Update ("ASU") Update No. 2020-06, *Debt - Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging - Contracts in Entity's Own Equity (Subtopic 815-40)* ("ASU 2020-06"). The update simplifies the accounting for convertible instruments by eliminating two accounting models (i.e., the cash conversion model and beneficial conversion feature model) and reducing the number of embedded conversion features that could be recognized separately from the host contract. ASU 2020-06 also enhances transparency and improves disclosures for convertible instruments and earnings per share guidance. On January 1, 2021 we adopted ASU 2020-06 using the modified retrospective approach. See Note 9 for further discussion of convertible debt.

Not Yet Effective

In March 2020 the FASB issued ASU 2020-04, *Reference Rate Reform Topic 848* ("ASC 848"). The amendments in this ASU were put forth in response to the market transition from the LIBOR and other interbank offered rates to alternative reference rates. Accounting principles generally accepted in the United States of America require entities to evaluate whether a contract modification, such as the replacement or change of a reference rate, results in the establishment of a new contract or continuation of an existing contract. ASC 848 allows an entity to elect not to apply certain modification accounting requirements to contracts affected by reference rate reform. The standard provides this temporary election through December 31, 2022 and cannot be applied to contract modifications that occur after December 31, 2022. We are in the process of evaluating the effect that the adoption of this standard will have on our financial position and results of operations.

2. Sale of PerClot

Overview

On July 28, 2021 we entered into an asset purchase agreement and other ancillary agreements related to the sale of PerClot®, a polysaccharide hemostatic agent used in surgery ("PerClot"), to a subsidiary of Baxter International, Inc. ("Baxter") and an agreement to terminate all of our material agreements with Starch Medical, Inc. ("SMI") related to PerClot (collectively the "Baxter Transaction"). Under the terms of the Baxter Transaction, Baxter will pay an aggregate of up to \$60.8 million in consideration (we will receive up to \$45.8 million and SMI will receive up to \$15.0 million), consisting of (i) \$25.0 million at closing, of which \$6.0 million was paid to SMI; (ii) up to \$25.0 million upon our receipt of Premarket Approval ("PMA") approval from the US Food and Drug Administration (the "FDA") for PerClot and our transfer of the PMA to Baxter, of which up to \$6.0 million is payable to SMI, subject to certain reductions for delay in PMA approval; and (iii) up to \$10.0 million upon Baxter's achievement of certain cumulative worldwide net sales of PerClot prior to December 31, 2026 and December 31, 2027, of which up to \$3.0 million is payable to SMI. In addition, at the conclusion of our manufacturing and supply services for Baxter, Baxter will pay \$780,000 upon transfer of our PerClot manufacturing equipment. Under the terms of the Baxter Transaction, we will continue to provide to Baxter certain transition and manufacturing and supply services relating to the sale of SMI PerClot outside of the US and manufacture and supply of PerClot to Baxter post PMA approval.

Accounting for the Transaction

Upon closing of the Baxter Transaction, we received \$25.0 million from Baxter and paid \$6.0 million to SMI. We derecognized intangible assets with a carrying value of \$1.6 million and wrote-off \$1.5 million of prepaid royalties previously recorded on our Condensed Consolidated Balance Sheets related to PerClot. Under the terms of the agreement, Baxter acquired intellectual property related to our development efforts for PerClot. We recorded a pre-tax gain of \$15.9 million, included as Gain from sale of non-financial assets within the Condensed Consolidated Statements of Operations for the three and nine months ended September 30, 2021. The PerClot product line was included as part of our Medical Devices segment.

3. Financial Instruments

The following is a summary of our financial instruments measured at fair value on a recurring basis (in thousands):

September 30, 2022		Level 1		Level 2		Level 3	Total		
Cash equivalents:									
Money market funds	\$	10,051	\$	_	\$	_	\$	10,051	
Total assets	\$	10,051	\$		\$		\$	10,051	
Long-term liabilities:									
Contingent consideration		_		_		(44,800)		(44,800)	
Total liabilities	\$	_	\$	_	\$	(44,800)	\$	(44,800)	
						T12			
December 31, 2021		Level 1		Level 2		Level 3		Total	
December 31, 2021 Cash equivalents:		Level 1		Level 2		Level 3		Total	
	\$	10,015	\$	Level 2	\$	Level 3	\$	Total 10,015	
Cash equivalents:	\$ <u>\$</u>		_		\$ \$		\$ \$		
Cash equivalents: Money market funds	\$ \$	10,015	_		\$ \$		\$ \$	10,015	
Cash equivalents: Money market funds Total assets	\$ <u>\$</u>	10,015	_		\$ \$		\$ \$	10,015	

We used prices quoted from our investment advisors to determine the Level 1 valuation of our investments in money market funds.

On September 2, 2020 we entered into a Securities Purchase Agreement to acquire 100% of the outstanding equity interests of Ascyrus Medical LLC ("Ascyrus"). Ascyrus developed the AMDS, the world's first aortic arch remodeling device for use in the treatment of acute Type A aortic dissections. As part of the acquisition, we may be required to pay additional consideration in cash of up to \$100.0 million to the former shareholders of Ascyrus upon the achievement of certain milestones and the sales-based additional earn-out.

The contingent consideration represents the estimated fair value of future potential payments. The fair value of the contingent consideration liability was estimated by discounting to present value the contingent payments expected to be made based on a probability-weighted scenario approach. We applied a discount rate based on our unsecured credit spread and the term commensurate risk-free rate to the additional consideration to be paid, and then applied a risk-based estimate of the probability of achieving each scenario to calculate the fair value of the contingent consideration. This fair value measurement was based on unobservable inputs, including management estimates and assumptions about the future achievement of milestones and future estimate of revenues, and is, therefore, classified as Level 3 within the fair value hierarchy. We used a discount rate of approximately 13% and estimated future achievement of milestone dates between 2025 and 2026 to calculate the fair value of contingent consideration as of September 30, 2022. We will remeasure this liability at each reporting date and will record changes in the fair value of the contingent consideration in General, administrative, and marketing expenses on the Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income. Increases or decreases in the fair value of the contingent consideration liability can result from changes in passage of time, discount rates, the timing and amount of our revenue estimates, and the timing and expectation of regulatory approvals.

We performed an assessment of the fair value of the contingent consideration and recorded expense of \$400,000 and income of \$4.6 million for the three and nine months ended September 30, 2022, respectively, and expense of \$700,000 and \$5.0 million for the three and nine months ended September 30, 2021, respectively, in General, administrative, and marketing expenses on the Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income, as a result of this assessment.

The fair value of the contingent consideration component of the Ascyrus acquisition was updated using Level 3 inputs. Changes in fair value of Level 3 assets and liabilities are listed in the tables below (in thousands):

	Contingent onsideration
Balance as of December 31, 2021	\$ (49,400)
Change in valuation	4,600
Balance as of September 30, 2022	\$ (44,800)

4. Cash Equivalents

The following is a summary of cash equivalents (in thousands):

September 30, 2022	Cost Basis	Unrealized Holding Gains	Estimated Market Value
Cash equivalents:			
Money market funds	\$ 10,051	\$ _	\$ 10,051
Total assets	\$ 10,051	\$ 	\$ 10,051

December 31, 2021	Cost Basis	Unrealized Holding Gains	Estimated Market Value
Cash equivalents:			
Money market funds	\$ 10,015	\$ _	\$ 10,015
Total assets	\$ 10,015	\$ 	\$ 10,015

There were no gross realized gains or losses on cash equivalents for the three and nine months ended September 30, 2022 and 2021.

5. Inventories, net and Deferred Preservation Costs

Inventories at September 30, 2022 and December 31, 2021 were comprised of the following (in thousands):

	Se	September 30, 2022		
Raw materials and supplies	\$	35,206	\$	35,780
Work-in-process		11,976		9,712
Finished goods		25,862		31,479
Total inventories, net	\$	73,044	\$	76,971

To facilitate product usage, we maintain consignment inventory of our On-X heart valves at domestic hospital locations and On-X heart valves and aortic stent grafts at international hospital locations. We retain title and control over this consignment inventory until the device is implanted, at which time we invoice the hospital and recognize revenue. As of September 30, 2022 we had \$13.2 million in consignment inventory, with approximately 39% in domestic locations and 61% in international locations. As of December 31, 2021 we had \$12.9 million in consignment inventory, with approximately 43% in domestic locations and 57% in international locations.

Total deferred preservation costs were \$45.5 million and \$42.9 million as of September 30, 2022 and December 31, 2021, respectively.

Inventory and deferred preservation costs obsolescence reserves were \$1.9 million and \$3.2 million as of September 30, 2022 and December 31, 2021, respectively.

6. Goodwill and Other Intangible Assets

Indefinite Lived Intangible Assets

As of September 30, 2022 and December 31, 2021 the carrying values of our indefinite lived intangible assets were as follows (in thousands):

	Septemb 202		December 31, 2021
Goodwill	\$	234,773 \$	250,000
In-process R&D		1,901	2,208
Procurement contracts and agreements		2,013	2,013
Trademarks		247	66

We monitor the phases of development of our acquired in-process research and development projects, including the risks associated with further development and the amount and timing of benefits expected to be derived from the completed projects. Incremental costs associated with development are charged to expense as incurred. Capitalized costs are amortized over the estimated useful life of the developed asset once completed. Our in-process research and development projects are reviewed for impairment annually, or more frequently, if events or changes in circumstances indicate that the asset might be impaired. We did not record any impairment of indefinite lived intangible assets during the three and nine months ended September 30, 2022. In-process research and development, procurement contracts and agreements, and trademarks are included in Other intangibles, net on the Condensed Consolidated Balance Sheets as of September 30, 2022 and December 31, 2021.

Based on our experience with similar agreements, we believe that our acquired procurement contracts and agreements have indefinite useful lives, as we expect to continue to renew these contracts for the foreseeable future. We believe that our trademarks have indefinite useful lives as we currently anticipate that our trademarks will contribute to our cash flows indefinitely.

We evaluate our goodwill and non-amortizing intangible assets for impairment on an annual basis during the fourth quarter of the year, and, if necessary, during interim periods if factors indicate that an impairment review is warranted. As of September 30, 2022 we concluded that our assessment of current factors did not indicate that goodwill or non-amortizing intangible assets are more likely than not to be impaired. We will continue to evaluate the recoverability of these non-amortizing intangible assets in future periods as necessary.

As of September 30, 2022 and December 31, 2021 the carrying value of goodwill, all of which is related to our Medical devices segment, is as follows (in thousands):

	dical Devices Segment
Balance as of December 31, 2021	\$ 250,000
Foreign currency translation	(15,227)
Balance as of September 30, 2022	\$ 234,773

Definite Lived Intangible Assets

The definite lived intangible assets balance includes balances related to acquired technology, customer relationships, distribution and manufacturing rights and know-how, patents, and other definite lived intangible assets. As of September 30, 2022 and December 31, 2021 the gross carrying values, accumulated amortization, and approximate amortization period of our definite lived intangible assets were as follows (in thousands, except weighted average useful life):

September 30, 2022	Gro	ss Carrying Value	cumulated nortization	Ne	et Carrying Value	Weighted Average Useful Life (Years)
Acquired technology	\$	190,108	\$ 42,048	\$	148,060	18.3
Other intangibles:						
Customer lists and relationships		30,868	10,677		20,191	20.6
Distribution and manufacturing rights and know-how		8,476	4,900		3,576	5.0
Patents		4,171	3,168		1,003	17.0
Other		4,325	2,144		2,181	4.5
Total other intangibles	\$	47,840	\$ 20,889	\$	26,951	10.8

December 31, 2021	Gro	Gross Carrying Value		Accumulated Net Carrying Value		Weighted Average Useful Life (Years)	
Acquired technology	\$	213,626	\$	46,632	\$	166,994	17.7
Other intangibles:							
Customer lists and relationships		31,148		9,618		21,530	20.5
Distribution and manufacturing rights and know-how		9,847		4,308		5,539	5.0
Patents		4,083		3,144		939	17.0
Other		3,969		1,762		2,207	4.4
Total other intangibles	\$	49,047	\$	18,832	\$	30,215	10.6

Amortization Expense

The following is a summary of amortization expense as recorded in General, administrative, and marketing expenses on our Condensed Consolidated Statement of Operations and Comprehensive (Loss) Income (in thousands):

	Three Months Ended September 30,			Nine Months Ended September 30,			
	2022		2021		2022		2021
Amortization expense	\$ 3,686	\$	4,203	\$	11,675	\$	12,701

As of September 30, 2022 scheduled amortization of intangible assets for the next five years is as follows (in thousands):

	R	Remainder of 2022	2023	2024	2025	2026	2027	Total
Amortization expense	\$	3,593	14,174	13,822	12,070	11,842	11,748	\$ 67,249

7. Income Taxes

Income Tax Expense

Our effective income tax rate was an expense of 9% and 17% for the three and nine months ended September 30, 2022, respectively, as compared to a benefit of 33% and 318% for the three and nine months ended September 30, 2021, respectively. Our income tax rate for the three and nine months ended September 30, 2022 was primarily impacted by changes in our valuation allowance against our net deferred tax assets, non-deductible executive compensation, the foreign derived intangible income deduction, the research and development tax credit, changes in our uncertain tax position liabilities, and tax shortfalls on stock compensation. Our income tax rate for the three and nine months ended September 30, 2021 was primarily impacted by non-deductible executive compensation, changes in our valuation allowance against our net deferred tax assets, changes in our uncertain tax position liabilities, the research and development tax credit, and excess tax benefits on stock compensation.

Deferred Income Taxes

We generate deferred tax assets primarily as a result of finance leases, net operating losses, amortization of research and development expenses, excess interest carryforward, stock compensation, and accrued compensation. Our deferred tax liabilities are primarily made up of intangible assets acquired in previous years, finance leases, and unrealized gains and losses.

We maintained a net deferred tax liability of \$28.0 million and \$26.4 million as of September 30, 2022 and December 31, 2021, respectively. Our valuation allowance against our deferred tax assets was \$17.8 million and \$13.3 million as of September 30, 2022 and December 31, 2021, respectively, primarily related to net operating loss carryforwards and disallowed excess interest carryforwards.

8. Leases

We have operating and finance lease obligations resulting from the lease of land and buildings that comprise our corporate headquarters and various manufacturing facilities; leases related to additional manufacturing, office, and warehouse space; leases on company vehicles; and leases on a variety of office and other equipment.

On January 6, 2021 we executed a modification to extend the lease of our headquarters located in Kennesaw, Georgia. This modification resulted in an increase in the present value of future lease obligations and corresponding right-of-use asset of \$23.3 million, using a discount rate of 6.41%.

On June 1, 2021 we began occupancy of the newly constructed addition to our leased international headquarters located in Hechingen, Germany. This lease resulted in an increase in the present value of future lease obligations and corresponding right-of-use asset of \$9.8 million, using a discount rate of 5.46%.

Information related to leases included in the Condensed Consolidated Balance Sheets is as follows (in thousands, except lease term and discount rate):

Operating leases:	mber 30, 2022	December 31, 2021
Operating lease right-of-use assets	\$ 55,405 \$	58,097
Accumulated amortization	(14,085)	(12,383)
Operating lease right-of-use assets, net	\$ 41,320 \$	45,714
Current maturities of operating leases	\$ 3,061 \$	3,149
Non-current maturities of operating leases	40,915	44,869
Total operating lease liabilities	\$ 43,976 \$	48,018
Finance leases:		
Property and equipment, at cost	\$ 5,861 \$	6,759
Accumulated amortization	(2,166)	(2,105)
Property and equipment, net	\$ 3,695	4,654
Current maturities of finance leases	\$ 469 \$	528
Non-current maturities of finance leases	3,450	4,374
Total finance lease liabilities	\$ 3,919 \$	4,902
Weighted average remaining lease term (in years):		
Operating leases	12.2	12.5
Finance leases	8.1	8.8
Weighted average discount rate:		
Operating leases	5.9%	5.8%
Finance leases	2.1%	2.0%

Current maturities of finance leases are included as a component of Other current liabilities on our Condensed Consolidated Balance Sheets. A summary of lease expenses for our finance and operating leases included in General, administrative, and marketing expenses on our Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income is as follows (in thousands):

	Three Months Ended September 30,				Nine Months Ended September 30,			
		2022		2021		2022		2021
Amortization of property and equipment	\$	127	\$	190	\$	395	\$	500
Interest expense on finance leases		22		27		69		85
Total finance lease expense		149		217		464		585
Operating lease expense		1,853		1,989		5,656		5,566
Sublease income		(92)		(92)		(275)		(308)
Total lease expense	\$	1,910	\$	2,114	\$	5,845	\$	5,843

A summary of our cash flow information related to leases is as follows (in thousands):

		September 30,						
Cash paid for amounts included in the measurement of lease liabilities:	2	022	2021					
Operating cash flows for operating leases	\$	4,939 \$	4,536					
Financing cash flows for finance leases		346	446					
Operating cash flows for finance leases		62	82					

Nine Months Ended

Future minimum lease payments and sublease rental income are as follows (in thousands):

	Finance Leases	Operating Leases	Sublease Income
Remainder of 2022	\$ 120	\$ 660	\$ 31
2023	549	5,624	_
2024	545	6,252	_
2025	525	5,173	_
2026	508	4,719	_
Thereafter	2,000	40,986	_
Total minimum lease payments	\$ 4,247	\$ 63,414	\$ 31
Less amount representing interest	 (328)	(19,438)	
Present value of net minimum lease payments	3,919	43,976	
Less current maturities	(469)	(3,061)	
Lease liabilities, less current maturities	\$ 3,450	\$ 40,915	

9. Debt

Credit Agreement

On December 1, 2017 we entered into a credit and guaranty agreement for a \$255.0 million senior secured credit facility, consisting of a \$225.0 million secured term loan facility (the "Term Loan Facility") and a \$30.0 million secured revolving credit facility (the "Revolving Credit Facility" and, together with the Term Loan Facility, the "Credit Agreement"). We and each of our existing domestic subsidiaries (subject to certain exceptions and exclusions) guarantee the obligations under the Credit Agreement (the "Guarantors"). The Credit Agreement is secured by a security interest in substantially all existing and after-acquired real and personal property (subject to certain exceptions and exclusions) of us and the Guarantors.

On June 2, 2021 we entered into an amendment to our Credit Agreement to extend the maturity dates of our Term Loan and Revolving Credit Facility. As part of the amendment, the maturity dates of both our Term Loan and Revolving Credit Facility were each extended by two and one-half years, until June 1, 2027 and June 1, 2025, respectively, subject to earlier springing maturities triggered if our 4.25% Convertible Senior Notes, described below, remain outstanding on April 1, 2025 and December 31, 2024, respectively. With respect to the Term Loan, if the Convertible Senior Notes remain outstanding on April 1, 2025, the Term Loan's maturity date will be April 1, 2025, or, if the Convertible Senior Notes' own maturity date has been extended, the earlier of (i) 91 days prior to the Convertible Senior Notes' new maturity date and (ii) June 1, 2027. In the case of the Revolving Credit Facility, if the Convertible Senior Notes are still outstanding on December 31, 2024, the Revolving Credit Facility's maturity date will be either December 31, 2024 or, if the Convertible Senior Notes' own maturity date has been extended, the earlier of (i) 182 days prior to the Convertible Senior Notes' new maturity date and (ii) June 1, 2025. Under the amendment, the Term Loan Facility bears interest, at our option, at a floating annual rate equal to either the base rate, plus a margin of 2.50%, or LIBOR, plus a margin of 3.50%. Prior to the amendment, the optional floating annual rate was equal to either the base rate plus a margin of 2.25%, or LIBOR, plus a margin of 3.25%. We paid debt issuance costs of \$2.1 million, of which \$1.8 million will be amortized over the life of the Term Loan Facility and included in current and long-term debt on the Condensed Consolidated Balance Sheets. The remaining \$361,000 of debt issuance costs and \$474,000 of non-cash debt extinguishment costs were recorded in Interest expense on the Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income.

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As discussed in our Annual Report on Form 10-K for the year ended December 31, 2021 the Credit Agreement contains certain customary affirmative and negative covenants, including covenants that limit our ability and the ability of our subsidiaries to, among other things, grant liens, incur debt, dispose of assets, make loans and investments, make acquisitions, make certain restricted payments (including cash dividends), merge or consolidate, change business or accounting or reporting practices, in each case subject to customary exceptions for a credit facility of this size and type. Beginning in 2021 if we repay borrowings under our Revolving Credit Facility to 25% or less, no financial maintenance covenants, including the minimum liquidity covenant and the maximum first lien net leverage ratio covenant, are applicable. We are in compliance with our debt covenants as of September 30, 2022.

Convertible Senior Notes

On June 18, 2020 we issued \$100.0 million aggregate principal amount of 4.25% Convertible Senior Notes with a maturity date of July 1, 2025 (the "Convertible Senior Notes"). The net proceeds from this offering, after deducting initial purchasers' discounts and costs directly related to this offering, were approximately \$96.5 million. On January 1, 2021 we adopted ASU 2020-06 and adjusted the carrying balance of the Convertible Senior Notes to notional. The Convertible Senior Notes balance was \$100.0 million recorded in Long-term debt on the Condensed Consolidated Balance Sheets as of September 30, 2022. The Convertible Senior Notes may be settled in cash, stock, or a combination thereof, solely at our discretion. The initial conversion rate of the Convertible Senior Notes is 42.6203 shares per \$1,000 principal amount, which is equivalent to a conversion price of approximately \$23.46 per share, subject to adjustments. We use the if-converted method for assumed conversion of the Convertible Senior Notes for the diluted earnings per share calculation. The fair value and the effective interest rate of the Convertible Senior Notes as of September 30, 2022 was approximately \$92.3 million and 5.05%, respectively. The fair value was based on market prices observable for similar instruments and is considered Level 2 in the fair value hierarchy.

The interest expense recognized on the Convertible Senior Notes includes \$1.2 million and \$3.7 million for the three and nine months ended September 30, 2022, respectively, and \$1.2 million and \$3.7 million for the three and nine months ended September 30, 2021, respectively, related to the aggregate of the contractual coupon interest, and the amortization of the debt issuance costs. Interest on the Convertible Senior Notes began accruing upon issuance and is payable semi-annually. As of September 30, 2022 there were \$2.0 million of unamortized debt issuance costs related to Convertible Senior Notes.

Holders of the Convertible Senior Notes may convert their notes at their option at any time prior to January 1, 2025, but only under the following circumstances: (i) during any calendar quarter commencing after the calendar quarter ending on September 30, 2020 (and only during such calendar quarter), if the last reported sale price of our common stock for at least 20 trading days (whether or not consecutive) during a period of 30 consecutive trading days ending on, and including, the last trading day of the immediately preceding calendar quarter is greater than or equal to 130% of the conversion price on each applicable trading day; (ii) during the five business day period after any five consecutive trading day period in which the trading price per \$1,000 principal amount of notes for each trading day of the measurement period was less than 98% of the product of the last reported sale price of our common stock and the conversion rate on each such trading day; (iii) we give a notice of redemption with respect to any or all of the notes, at any time prior to the close of business on the second scheduled trading day immediately preceding the redemption date; or (iv) upon the occurrence of specified corporate events. On or after January 1, 2025 until the close of business on the second scheduled trading day immediately preceding the maturity date, holders may convert their notes at any time, regardless of the foregoing circumstances.

We cannot redeem the Convertible Senior Notes before July 5, 2023. We can redeem them on or after July 5, 2023, in whole or in part, at our option, if the last reported sale price per share of our common stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which we provide notice of redemption. We may redeem for cash all or part of the Convertible Senior Notes at a redemption price equal to 100% of the principal amount of the redeemable Convertible Senior Notes, plus accrued and unpaid interest to, but excluding, the redemption date. No principal payments are due on the Convertible Senior Notes prior to maturity. Other than restrictions relating to certain fundamental changes and consolidations, mergers or asset sales and customary anti-dilution adjustments, the Convertible Senior Notes do not contain any financial covenants and do not restrict us from conducting significant restructuring transactions or issuing or repurchasing any of its other securities.

Loan Balances

The short-term and long-term balances of our term loan and other long-term borrowings were as follows (in thousands):

	September 30, 2022	December 31, 2021
Term loan balance	\$ 214,313	\$ 216,000
Convertible senior notes	100,000	100,000
2.45% Sparkasse Zollernalb (KFW Loan 1)	325	566
1.40% Sparkasse Zollernalb (KFW Loan 2)	731	1,061
Total loan balance	315,369	317,627
Less unamortized loan origination costs	(7,133)	(8,504)
Net borrowings	308,236	309,123
Less short-term loan balance	(1,562)	(1,630)
Long-term loan balance	\$ 306,674	\$ 307,493

Interest Expense

Interest expense was \$4.8 million and \$12.9 million for the three and nine months ended September 30, 2022, respectively, as compared to \$4.1 million and \$13.0 million for the three and nine months ended September 30, 2021, respectively.

10. Commitments and Contingencies

Liability Claims

In the normal course of business, we are made aware of adverse events involving our products and tissues. Future adverse events could ultimately give rise to a lawsuit against us, and liability claims may be asserted against us in the future based on past events that we are not aware of at the present time. We maintain claims-made insurance policies to mitigate our financial exposure to product and tissue processing liability claims. Claims-made insurance policies generally cover only those asserted claims and incidents that are reported to the insurance carrier while the policy is in effect. The amounts recorded in these Condensed Consolidated Financial Statements as of September 30, 2022 represent our estimate of the probable losses and anticipated recoveries for incurred but not reported claims related to products sold and services performed prior to the balance sheet date.

PROACT Xa Clinical Trial Termination

On September 23, 2022 we announced that we were stopping the PROACT Xa clinical trial as recommended by the trial's independent Data and Safety Monitoring Board. The PROACT Xa clinical trial was a prospective, randomized, trial designed to determine if patients with On-X mechanical aortic valves could be maintained safely and effectively on apixaban rather than on warfarin. As a result of PROACT Xa's early termination, we recorded \$4.7 million of termination and wind-down expenses that are included in Research and development operating expenses on the Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income for the three and nine months ended September 30, 2022. The majority of these costs include future administrative costs that will be incurred during the fourth quarter of 2022 and the first quarter of 2023, as well as the estimated cost of clinical drugs purchased for patients participating in the study that are not expected to be recovered.

11. Revenue Recognition

Sources of Revenue

We have identified the following revenues disaggregated by revenue source:

- Domestic hospitals direct sales of products and preservation services.
- International hospitals direct sales of products and preservation services.
- International distributors generally these contracts specify a geographic area that the distributor will service, terms and conditions of the relationship, and purchase targets for the next calendar year.

CardioGenesis cardiac laser console trials and sales – CardioGenesis cardiac trialed laser consoles are delivered under separate agreements.

For the three and nine months ended September 30, 2022 and 2021 the sources of revenue were as follows (in thousands):

	Three Mor Septem		Nine Months Ended September 30,			
	 2022	2021		2022		2021
Domestic hospitals	\$ 40,842	\$ 36,129	\$	117,343	\$	111,291
International hospitals	24,119	25,458		79,768		79,219
International distributors	11,469	10,544		34,685		28,694
CardioGenesis cardiac laser therapy	408	76		2,595		238
Total sources of revenue	\$ 76,838	\$ 72,207	\$	234,391	\$	219,442

Also see segment disaggregation information in Note 14 below.

Contract Balances

We may generate contract assets during the pre-delivery design and manufacturing stage of E-xtra Design Engineering product order fulfillment. We assess the balance related to any arrangements in process and determine if the enforceable right to payment creates a material contract asset requiring disclosure. No material arrangements in process existed as of September 30, 2022 and 2021.

We also incur contract obligations on general customer purchase orders that have been accepted but unfulfilled. Due to the short duration of time between order acceptance and delivery of the related product or service, we have determined that the balance related to these contract obligations is generally immaterial at any point in time. We monitor the value of orders accepted but unfulfilled at the close of each reporting period to determine if disclosure is appropriate. The value of orders accepted but unfulfilled as of September 30, 2022 and 2021 was not material.

12. Stock Compensation

Overview

We have stock option and stock incentive plans for employees and non-employee Directors that provide for grants of restricted stock awards ("RSAs"), restricted stock units ("RSUs"), performance stock units ("PSUs"), and options to purchase shares of our common stock at exercise prices generally equal to the fair value of such stock at the dates of grant. We also maintain a shareholder-approved Employee Stock Purchase Plan ("ESPP") for the benefit of our employees. The ESPP allows eligible employees to purchase common stock on a regular basis at the lower of 85% of the market price at the beginning or end of each offering period.

Equity Grants

During the nine months ended September 30, 2022 the Compensation Committee of our Board of Directors (the "Committee") authorized awards from approved stock incentive plans of RSAs to non-employee directors and RSUs and PSUs to certain employees and company officers, which, assuming that performance under the PSUs were to be achieved at target levels, together totaled 520,000 shares and had an aggregate grant date fair value of \$9.7 million.

During the nine months ended September 30, 2021 the Committee authorized awards from approved stock incentive plans of RSAs to non-employee directors, RSUs to certain employees, and RSAs and PSUs to certain Company officers, which, assuming that performance under the PSUs were to be achieved at target levels, together totaled 494,000 shares and had an aggregate grant date fair value of \$12.5 million.

The Committee authorized, from approved stock incentive plans, grants of stock options to purchase a total of 314,000 and 226,000 shares to certain Company officers during the nine months ended September 30, 2022 and 2021, respectively. The exercise prices of the options were equal to the closing stock prices on their respective grant dates.

Employees purchased common stock totaling 58,000 and 95,000 shares in the three and nine months ended September 30, 2022, respectively, as compared to 51,000 and 87,000 shares in the three and nine months ended September 30, 2021, respectively, through the ESPP.

Stock Compensation Expense

The following weighted-average assumptions were used to determine the fair value of options and shares purchased under the ESPP:

	Three Mont September		Nine Months September 3	
	Stock Options	ESPP	Stock Options	ESPP
Expected life	N/A	0.5 Years	5.0 Years	0.5 Years
Expected stock price volatility	N/A	0.49	0.40	0.31
Risk-free interest rate	N/A	2.52%	1.89%	0.22%

The following table summarizes total stock compensation expenses prior to the capitalization of amounts into Deferred preservation and Inventory costs (in thousands):

	Three Mor Septen		Nine Mor Septen		
	2022	2021	 2022		2021
RSA, RSU, and PSU expense	\$ 2,622	\$ 2,465	\$ 7,860	\$	6,211
Stock option and ESPP expense	611	525	1,794		1,684
Total stock compensation expense	\$ 3,233	\$ 2,990	\$ 9,654	\$	7,895

Included in the total stock compensation expense, as applicable in each period, were expenses related to RSAs, RSUs, PSUs, and stock options issued in each respective year, as well as those issued in prior periods that continue to vest during the period, and compensation related to the ESPP. These amounts were recorded as stock compensation expense and were subject to our normal allocation of expenses to inventory costs and deferred preservation costs. We capitalized \$144,000 and \$465,000 in the three and nine months ended September 30, 2022, respectively, and \$115,000 and \$424,000 in the three and nine months ended September 30, 2021, respectively, of the stock compensation expense into our inventory costs and deferred preservation costs.

13. (Loss) Earnings Per Common Share

The following table sets forth the computation of basic and diluted (loss) income per common share (in thousands, except per share data):

	Three Mor Septem			Nine Months Ended September 30,				
Basic (loss) income per common share	 2022	2021		2022		2021		
Net (loss) income	\$ (13,713)	\$	10,582	\$	(21,361)	\$	5,266	
Net loss (income) allocated to participating securities	70		(63)		109		(34)	
Net (loss) income allocated to common shareholders	\$ (13,643)	\$	10,519	\$	(21,252)	\$	5,232	
Basic weighted-average common shares outstanding	 40,115		39,086		39,999		38,924	
Basic (loss) income per common share	\$ (0.34)	\$	0.27	\$	(0.53)	\$	0.13	

	Three Moi Septem			Nine Months Ended September 30,			
Diluted (loss) income per common share	 2022		2021		2022		2021
Net (loss) income	\$ (13,713)	\$	10,582	\$	(21,361)	\$	5,266
Net loss (income) allocated to participating securities	70		(55)		109		(34)
Net loss attributable to convertible senior notes	_		919		_		_
Net (loss) income allocated to common shareholders	\$ (13,643)	\$	11,446	\$	(21,252)	\$	5,232
Basic weighted-average common shares outstanding	40,115		39,086		39,999		38,924
Effect of dilutive stock options and awards	_		505		_		572
Effect of convertible senior notes	_		4,862		_		_
Diluted weighted-average common shares outstanding	 40,115		44,453		39,999		39,496
Diluted (loss) income per common share	\$ (0.34)	\$	0.26	\$	(0.53)	\$	0.13

We excluded stock options from the calculation of diluted weighted-average common shares outstanding if the per share value, including the sum of (i) the exercise price of the options and (ii) the amount of the compensation cost attributed to future services and not yet recognized, was greater than the average market price of the shares because the inclusion of these stock options would be antidilutive to loss per common share. For the three and nine months ended September 30, 2022 all stock options and awards were excluded from the calculation of diluted weighted-average common shares outstanding as these would be antidilutive due to the net loss. For the three and nine months ended September 30, 2021 539,000 and 517,000 of potential common shares relating to stock options, respectively, were antidilutive and excluded from the calculation of diluted weighted-average common shares outstanding. We excluded 4,860,685 of potential common shares related to our Convertible Senior Notes calculated under the if-converted method, as these shares would be antidilutive for the nine months ended September 30, 2021.

14. Segment Information

We have two reportable segments organized according to our products and services: Medical devices and Preservation services. The Medical devices segment includes external revenues from product sales of aortic stent grafts, surgical sealants, On-X, and other product revenues. Aortic stent grafts include aortic arch stent grafts, abdominal stent grafts, and synthetic vascular grafts. Aortic arch stent grafts include our E-vita Open NEO, E-vita Open Plus, AMDS, NEXUS, E-vita Thoracic 3G, and E-nya products. Abdominal stent grafts include our E-xtra Design Engineering, E-nside, E-tegra, E-ventus BX, and E-liac products. Surgical sealants include BioGlue Surgical Adhesive products. The Preservation Services segment includes external services revenues from the preservation of cardiac and vascular tissues. There are no intersegment revenues.

The primary measure of segment performance, as viewed by our management, is segment gross margin or net external revenues less cost of products and preservation services. We do not segregate assets by segment, therefore, asset information is excluded from the segment disclosures below.

The following table summarizes revenues, cost of products and preservation services, and gross margins for our operating segments (in thousands):

	Three Months Ended September 30,					Nine Months Ended September 30,				
		2022		2021		2022		2021		
Revenues:										
Medical devices	\$	55,248	\$	53,107	\$	171,726	\$	162,528		
Preservation services		21,590		19,100		62,665		56,914		
Total revenues		76,838		72,207		234,391		219,442		
Cost of products and preservation services:										
Medical devices		17,743		15,503		53,381		46,592		
Preservation services		10,351		8,915		29,375		26,710		
Total cost of products and preservation services		28,094		24,418		82,756		73,302		
Gross margin:										
Medical devices		37,505		37,604		118,345		115,936		
Preservation services		11,239		10,185		33,290		30,204		
Total gross margin	\$	48,744	\$	47,789	\$	151,635	\$	146,140		

The following table summarizes net revenues by product and service (in thousands):

	Three Mor Septem	 		Ended 30,		
	 2022	2021		2022		2021
Products:						
Aortic stent grafts	\$ 19,674	\$ 20,896	\$	69,013	\$	62,165
Surgical sealants	17,374	16,544		49,022		52,236
On-X	16,456	14,022		47,082		41,843
Other	1,744	1,645		6,609		6,284
Total products	55,248	53,107		171,726		162,528
Preservation services	21,590	19,100		62,665		56,914
Total revenues	\$ 76,838	\$ 72,207	\$	234,391	\$	219,442

Forward-Looking Statements

This Form 10-Q includes "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934 (the "Exchange Act"). Forward-looking statements give our expectations or forecasts of future events as of the date of this Form 10-Q. In some cases, words such as "could," "may," "might," "will," "would," "shall," "should," "pro forma," "potential," "pending," "intend," "believe," "expect," "anticipate," "estimate," "plan," "future," "assume," and variations of these types of words or other similar expressions identify forward-looking statements. These forward-looking statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Readers are cautioned not to place undue reliance on these forward-looking statements, which are made as of the date of this Form 10-Q.

All statements included herein, other than statements of historical facts, that address activities, events, or developments that we expect or anticipate will or may occur in the future, or that reflect our beliefs about the future and/or expectations, are forward-looking statements, including statements about the following:

- Our belief that new products, new indications, global expansion, and business development are the four growth areas that will drive our business in the future;
- The potential impact of the COVID-19 pandemic and the war in Ukraine on demand for and sales of our products and services, business operations, manufacturing operations, supply chain, cash flow, workforce, clinical and regulatory timelines, and our research and development projects;
- Our belief that our distributors may delay or reduce purchases of products in US Dollars depending on the relative price of goods in their local currencies;
- Our beliefs that the use of surgical adhesives and sealants, with or without sutures and staples, for certain indications can enhance the efficacy and cost-effectiveness of certain procedures through more effective and rapid wound closure;
- Our beliefs and anticipation regarding the favorable attributes and benefits of our products and services, the basis on which our products and services compete, our physician education activities, the advantages of our relationships with organ and tissue procurement organizations and tissue banks, the FDA classification of our medical devices, our compliance with applicable laws and regulations, and the advantages of our intellectual property and its significance to our segments and our business as a whole, our relations with our employees, timelines regarding product launches and regulatory certifications, clearances, renewals, and approvals;
- Our beliefs about potential competition and competitive products and services, potential adverse regulatory consequences, potential security vulnerabilities, and the associated potential adverse effects on our business;
- Our beliefs regarding our global expansion efforts, including the international growth opportunity that would be provided by obtaining regulatory approval for BioGlue in China;
- The dependencies affecting our ability to realize the anticipated business opportunities, growth prospects, synergies, and other benefits of the agreements with Endospan and Baxter and our acquisition of Ascyrus, and our beliefs about the costs and timelines for certain regulatory approvals and clinical trial milestones related to PerClot and the NEXUS stent graft system in the US and the AMDS globally;
- Our beliefs regarding the fair value of our acquisitions, divestitures, and other business development activities and the estimates and assumptions
 about the future achievements of milestones and future revenues and cash flows related to those business development activities, including our
 ability to achieve the milestones in the Baxter Transaction;
- Our beliefs about the anticipated benefits from our corporate reincorporation and rebranding and the risks posed by the same;
- Our beliefs about the present value and potential impairment of our intangible assets and leases;
- Our beliefs about handpiece availability and CardioGenesis cardiac laser therapy revenue;
- Our beliefs regarding the impact alternative anticoagulation therapy and transcatheter heart valve replacement may have on the number of patients choosing On-X mechanical heart valves;
- Our beliefs about our ability to make timely transitions to our notified bodies and obtain renewals for our CE Marks impacted by Brexit and the
 transition to the Medical Device Regulation ("MDR") in Europe, our ability to timely obtain derogations related to the same, and the impact these
 transitions, renewals, and derogations may have on our business, including any impact on our customers' ordering patterns and our ability to
 supply products;
- Our beliefs about our R&D and product pipeline, including our beliefs about the timing of our clinical trials and product launches;

- Our belief that revenues for preservation services, particularly revenues for certain high-demand cardiac tissues, can vary from quarter-to-quarter and year-to-year due to a variety of factors including: quantity and type of incoming tissues, yields of tissue through the preservation process, timing of receipt of donor information, staffing levels, timing of the release of tissues to an implantable status, demand for certain tissue types due to the number and type of procedures being performed, and pressures from competing products or services;
- Our beliefs regarding the seasonal nature of the demand for some of our products and services and the reasons for such seasonality, if any, and regarding the impact of consignment inventory on product sales, if any;
- Our belief that our cash from operations and existing cash and cash equivalents will enable us to meet our current operational liquidity needs for at
 least the next twelve months, our expectations regarding future cash requirements, and the impact that our cash requirements might have on our
 cash flows for the next twelve months;
- Our expectation regarding the impact on cash flows of undertaking significant business development activities and the potential need to obtain additional debt financing or equity financing;
- Our belief that we will incur expenses for research and development projects, including for clinical research projects to gain regulatory approvals
 for products or indications, including On-X, aortic stent grafts, and BioGlue products, and for research and development for new products despite
 reduced planned spending due to COVID-19 and that our efforts to develop new products and technologies will likely require additional
 investment, research, and new clinical studies or data;
- Our beliefs about pending and potential legal or other governmental or regulatory proceedings;
- Our expectations regarding the timing and impact of clinical research work and regulatory approvals for certain products or indications, including On-X, aortic stent grafts, and BioGlue products, and CryoValve SGPV if the FDA reclassifies allograft heart valves as Class III medical devices;
- Our expectations regarding the impact of and costs associated with the conclusion of the PROACT Xa Trial;
- Our beliefs and expectations regarding the utilization of net operating loss carryforwards from our acquisitions of JOTEC, On-X, Hemosphere, Inc., and Cardiogenesis Corporation;
- Our beliefs about our operating results which may fluctuate significantly on a periodic basis as a result of internal and external factors, including reduced demand for our products, availability of products, materials, and supplies, strategic actions we take such as acquisitions or divestitures, unanticipated costs and expenses, market reception of our new or improved product offerings, and interest rate and currency fluctuations; and
- Other statements regarding projections of future financial and business performance; anticipated growth and trends in our business and the
 markets relevant to our business, including as our growth relates to our competitors; the robustness and reliability of our workforce and supply
 chain; future production capacity and product supply; the availability and benefits of our products in the future; and the expected timing and
 impact of our strategic initiatives.

These and other forward-looking statements reflect the views of management at the time and such statements are originally made based on certain assumptions and analyses made by us in light of our experience and our perception of historical trends, current conditions, and expected future developments as well as other factors we believe are appropriate in the circumstances and are subject to a number of risks, uncertainties, estimates, and assumptions. Whether actual results and developments will conform with our expectations and predictions is subject to a number of risks and uncertainties which could cause actual results to differ materially and adversely from our expectations, including, without limitation, in addition to those specified in the text surrounding such statements, the risks described in Part II, Item 1A, "Risks Factors" in this Form 10-Q and elsewhere throughout this report, the risks described in our other filings with the Securities and Exchange Commission including the risks described in Part I, Item 1A, "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2021 and elsewhere throughout that report, and other risks which we may not be able to identify in advance, many of which are beyond our control. Consequently, all of the forward-looking statements made in this Form 10-Q are qualified by these cautionary statements, and there can be no assurance that the actual results or developments anticipated by us will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, us or our business or operations. We assume no obligation, and expressly disclaim any duty, to update publicly any such forward-looking statements, whether as a result of new information, future events, or otherwise.

PART I - FINANCIAL INFORMATION

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

Overview

Artivion, Inc. ("Artivion," the "Company," "we," or "us"), is a leader in the manufacturing, processing, and distribution of medical devices and implantable human tissues used in cardiac and vascular surgical procedures for patients with aortic disease. We have four major product families: aortic stent grafts, surgical sealants, On-X® mechanical heart valves and related surgical products, and implantable cardiac and vascular human tissues. Aortic stent grafts include aortic arch stent grafts, abdominal stent grafts, and synthetic vascular grafts. Aortic arch stent grafts include our E-vita Open NEO, E-vita Open Plus, AMDS, NEXUS, E-vita Thoracic 3G, and E-nya products. Abdominal stent grafts include our E-xtra Design Engineering, E-nside, E-tegra, E-ventus BX, and E-liac products. Surgical sealants include BioGlue® Surgical Adhesive ("BioGlue") products. In addition to these four major product families, we sell or distribute PhotoFix® bovine surgical patches, CardioGenesis® cardiac laser therapy, Therion® chorioamniotic allografts (previously marketed as NeoPatch®), and PerClot® hemostatic powder (prior to the sale to a subsidiary of Baxter International, Inc ("Baxter")).

We reported quarterly revenues of \$76.8 million for the three months ended September 30, 2022, a 6% increase from the three months ended September 30, 2021. The increase in revenues for the three months ended September 30, 2022 was primarily due to an increase in revenues from preservation services, On-X products, surgical sealants, and other products, partially offset by a decrease in revenues from aortic stent grafts. Excluding the effects of foreign exchange, revenues increased 11% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021 which reflects an increase in revenues for all product lines.

See the "Results of Operations" section below for additional analysis of the three and nine months ended September 30, 2022.

Effects of COVID-19

In December 2019 an outbreak of a respiratory illness caused by a new coronavirus named "2019-nCoV" ("COVID-19") was detected, and by March 11, 2020, the World Health Organization declared the COVID-19 outbreak a "pandemic."

Beginning in March 2020 we took steps to address the potential impact of COVID-19 on our employees and operations, and to preserve cash, including reducing expenditures and delaying investments. These steps included, but were not limited to, implementing specific protocols to minimize workplace exposures to COVID-19 by our employees; implementing remote work arrangements for most employees we deemed able to do so; restricting business travel; implementing hiring restrictions; reducing planned expenditures on some pending clinical trials; imposing senior management cash salary reductions in exchange for cash payments in the second quarter of 2021; requiring our Board of Directors to accept Artivion stock instead of cash compensation for a six month period through October 2020; and suspending management merit increases for seven months in 2020.

Our efforts to protect our supply chain and reduce the spread of COVID-19 among our employees, including our work-from-home arrangements, have been successful to date as we have continued to operate all manufacturing sites at full production. These efforts have not materially affected our ability to maintain our business operations, including the operation of financial reporting systems, internal control over financial reporting, or disclosure controls and procedures; however, there is no guarantee that these efforts and arrangements, if they are continued, will continue to be successful in the future. Further, our reductions or delays in expenditures slowed our progress on certain key R&D initiatives and could in the future continue to adversely impact our business operations or further delay our recovery from the pandemic.

Although we have scaled back most of our COVID-19 mitigation efforts, we continue to monitor the impact of the pandemic and the emergence of new variants on our business and recognize that COVID-19 and its effects could continue to negatively impact our business and results of operations during the remainder of 2022 and beyond. As an example, the COVID-19 pandemic has impacted certain aspects of the global supply chain and resulted in supply chain inflation. Although we have yet to experience any material effects of this impact on our supply chain or operations, we face an increasing risk that upstream disruptions may occur or worsen. As global economies continue to recover from the COVID-19 downturn, increased opportunities for remote work, and increasing compensation pressure have resulted in competition for talent and an unprecedented number of retirements or career changes. The resulting worker shortages at all levels have impacted supply chains, distribution channels, and employers' and our own ability to adequately staff operations. These shortages to date, including a shortage of trained staff capable of meeting the increased demand

associated with releasing quarantined tissue, have impacted, and may impact our operations going forward. Hospitals and other healthcare providers have also experienced staffing shortages impacting our business including increased restrictions on elective and non-emergent procedures, restrictions on access to healthcare facilities, cancellation of elective procedures, and the re-allocation of scarce resources. New variants of COVID-19 continue to emerge around the globe, increasing the case numbers and short-term quarantines which can each further impact our workforce and business and those of our customers and suppliers.

The extent to which our operations and financial performance will be impacted by the pandemic for the remainder of 2022 and beyond will depend largely on future developments, including changes in hospital utilization rates and staffing, prevalence and severity of new variants and their impact on case numbers and short-term quarantines, the impact of vaccines on the spread of COVID-19 and its variants, global availability and acceptance of vaccines and their effectiveness against variants, disruptions to workforce availability, and any continuing impact on the global supply chain. If COVID-19 or its variants become more contagious, if efforts to further contain the effects of COVID-19 or its variants, including vaccine availability, are unsuccessful, if COVID-19, its variants, or disruptions to the global supply chain impact our supply chain or employee availability or productivity, or if we continue to experience periods of uncertainty due to COVID-19 or its variants, it could materially, adversely affect our revenues, financial condition, profitability, and cash flows.

See the "Risk Factors" identified in Part II, Item 1A of this form 10-Q for risks related to COVID-19.

New Accounting Pronouncements

See Note 1 of "Notes to Condensed Consolidated Financial Statements" identified in Part I, Item I of this form 10-Q for further discussion of new accounting standards that have been adopted.

Results of Operations (Tables in thousands)

Revenues

		Revenue Three Mo Septen	nths l	Ended	Percent Change From Prior Year	Revenues as a Total Rever Three Mon Septem	nues for the oths Ended
		2022		2021		2022	2021
Products:	-						
Aortic stent grafts	\$	19,674	\$	20,896	-6%	26%	29%
Surgical sealants		17,374		16,544	5%	23%	23%
On-X		16,456		14,022	17%	21%	19%
Other		1,744		1,645	6%	2%	3%
Total products		55,248		53,107	4%	72%	74%
Preservation services		21,590		19,100	13%	28%	26%
Total	\$	76,838	\$	72,207	6%	100%	100%

	Revenue Nine Mon Septen	ths E	nded	Percent Change From Prior Year	Revenues as a I Total Revent Nine Montl Septemb	ues for the hs Ended
	 2022		2021		2022	2021
Products:						
Aortic stent grafts	\$ 69,013	\$	62,165	11%	29%	28%
Surgical sealants	49,022		52,236	-6%	21%	24%
On-X	47,082		41,843	13%	20%	19%
Other	6,609		6,284	5%	3%	3%
Total products	 171,726		162,528	6%	73%	74%
Preservation services	 62,665		56,914	10%	27%	26%
Total	\$ 234,391	\$	219,442	7%	100%	100%

Revenues increased 6% and 7% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. The increase in revenues for the three months ended September 30, 2022 was due to an increase in revenues from preservation services, On-X products, surgical sealants, and other products, partially offset by a decrease in revenues from aortic stent grafts. The increase in revenues for the nine months ended September 30, 2022 was due to an increase in revenues from aortic stent grafts, preservation services, On-X products, and other products, partially offset by a decrease in revenues from surgical sealants. Excluding the effects of foreign exchange, revenues increased 11% for the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021. Revenues for the three and nine months ended September 30, 2022 and 2021 were negatively impacted in certain regions by delays or cancellations of some surgical procedures as a result of reduced hospital capacity and staffing and hospital restrictions due to the COVID-19 pandemic. The revenue impact from COVID-19 was smaller and varied regionally during the three and nine months ended September 30, 2021. A detailed discussion of the changes in product revenues and preservation services revenues for the three and nine months ended September 30, 2022 is presented below.

Products

Revenues from products increased 4% and 6% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. The increase for the three months ended September 30, 2022 was due to an increase in revenues from On-X products, surgical sealants, and other products, partially offset by a decrease in revenues from aortic stent grafts. The increase in revenues for the nine months ended September 30, 2022 was due to an increase in revenues from aortic stent grafts, On-X products, and other products, partially offset by a decrease in revenues from surgical sealants. A discussion of the changes in product revenues for aortic stent grafts, surgical sealants, On-X products, and other product revenues is presented below.

Sales of certain products through our direct sales force and distributors across Europe and various other countries are denominated in a variety of currencies including Euros, British Pounds, Polish Zlotys, Swiss Francs, Brazilian Reals, and Canadian Dollars, with a concentration denominated in Euros. Each currency is subject to exchange rate fluctuations. For the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021, the US Dollar strengthened in comparison to major currencies, resulting in revenue decreases when these foreign currency denominated transactions were translated into US Dollars. Future changes in these exchange rates could have a material, adverse effect on our revenues denominated in these currencies. Additionally, our sales to many distributors around the world are denominated in US Dollars, and although these sales are not directly impacted by currency exchange rates, we believe that some of our distributors may delay or reduce purchases of products in US Dollars depending on the relative price of these goods in their local currencies.

Aortic Stent Grafts

Aortic stent grafts include aortic arch stent grafts, abdominal stent grafts, synthetic vascular grafts, and original equipment manufacturing ("OEM") aortic stent graft products. Aortic arch stent grafts include our E-vita Open NEO, E-vita Open Plus, AMDS, NEXUS, E-vita Thoracic 3G, and E-nya products. Abdominal stent grafts include our E-xtra Design Engineering, E-nside, E-tegra, E-ventus BX, and E-liac products. Aortic stent grafts are used in endovascular and open

vascular surgery for the treatment of complex aortic arch, thoracic, and abdominal aortic diseases. Our aortic stent grafts are primarily distributed in international markets.

Revenues from aortic stent grafts decreased 6% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. Revenues from aortic stent grafts increased 11% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021.

Revenues from aortic stent grafts, excluding OEM, decreased 4% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. This decrease was primarily due to the effect of foreign exchange rates, which decreased revenues by 11%, partially offset by an increase in units sold, which increased revenues by 6%, and an increase in average sales prices, which increased revenues by 1%.

Revenues from aortic stent grafts, excluding OEM, increased 13% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. This increase was primarily due to an increase in the volume of units sold, which increased revenues by 21%, and an increase in average sales prices, which increased revenues by 1%, partially offset by the effect of foreign exchange rates, which decreased revenues by 9%.

On a constant currency basis, revenues from aortic stent grafts, excluding OEM, increased 8% and 23% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. The increase in revenues was partially due to improved conditions from the COVID-19 pandemic for the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021. Revenues for the three months ended September 30, 2022 increased primarily in the Asia Pacific ("APAC") and Latin American regions. Revenues for the nine months ended September 30, 2022 increased primarily in Europe, the Middle East, and Africa (collectively, "EMEA"), APAC, and Latin America

The revenue increase in EMEA for the nine months ended September 30, 2022 was primarily due to buying patterns in certain direct and indirect markets. The revenue increase in APAC for the three and nine months ended September 30, 2022 was primarily due to an increase in sales of newly launched aortic stent grafts and distributor buying patterns in certain markets. The revenue increase in Latin America for the three and nine months ended September 30, 2022 was primarily due to market penetration in certain regions. OEM sales of aortic stent grafts accounted for less than 1% of product revenues for the three and nine months ended September 30, 2022 and 2021.

Surgical Sealants

Surgical sealants include BioGlue products used as an adjunct to standard methods of achieving hemostasis (such as sutures and staples) in adult patients in open surgical repair of large vessels (such as aorta, femoral, and carotid arteries).

Revenues from the sales of surgical sealants increased 5% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. This increase was primarily due to an increase in volume of milliliters sold, which increased revenues by 7%, and an increase in average sales prices, which increased revenues by 3%, partially offset by the effect of foreign exchange rates, which decreased revenues by 5%.

Revenues from the sales of surgical sealants decreased 6% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. This decrease was primarily due to a change in the mix of milliliters sold and a decrease in volume of milliliters sold, which decreased revenues by 4%, and the effect of foreign exchange rates, which decreased revenues by 3%, partially offset by an increase in average sales prices, which increased revenues by 1%.

On a constant currency basis, revenues from sales of surgical sealants increased 9% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. On a constant currency basis, revenues from sales of surgical sealants decreased 4% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. The increase in revenues in the three months ended September 30, 2022 was primarily due to revenue increases in EMEA. The decrease in revenues in the nine months ended September 30, 2022 was primarily due to revenue decreases in North America.

During the nine months ended September 30, 2021 revenues from the sales of surgical sealants in North America were larger than in the nine months ended September 30, 2022, primarily due to inventory restocking orders placed during the first half of 2021 as hospitals experienced reduced impact from the COVID-19 pandemic and began resuming more normal operations. Revenues were negatively impacted during the first quarter of 2022 due to delays and cancellations of some surgical procedures due to hospital staffing challenges as a result of a new COVID-19 variant.

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The revenue increase in EMEA during the three months ended September 30, 2022 was primarily due to customers accelerating orders in certain countries in anticipation of the potential expiration of certain BioGlue derogations, which have since been extended. Surgical sealant revenue in EMEA was adversely impacted during the first half of 2022 primarily due to temporary commercialization restrictions resulting from the expiration of our BioGlue CE Mark during our transition to a new notified body. During this ongoing transition period, we have requested, and certain countries have granted, derogations to allow us to continue to commercialize BioGlue in those countries until we can complete our transition to a new notified body. We have obtained or anticipate obtaining extension of early-expiring derogations and currently anticipate completing the remaining transition and the renewal of our BioGlue CE Mark in the fourth quarter of 2022. We anticipate EMEA BioGlue revenues during the three months ended December 31, 2022 will be impacted by orders accelerated during the three months ended September 30, 2022. See Part II, Item 1A, "Risk Factors—Industry Risks— Our products and tissues are highly regulated and subject to significant quality and regulatory risks." for further background on our transition to a new notified body; see also, Part II, Item 1A, "Risk Factors—Operational Risks— We may not be successful in obtaining necessary clinical results or regulatory clearances/approvals for new and existing products and services, and our approved products and services may not achieve market acceptance."

Domestic revenues from surgical sealants accounted for 46% and 48% of total surgical sealant revenues for the three and nine months ended September 30, 2022, respectively, and 48% and 52% of total surgical sealant revenues for the three and nine months ended September 30, 2021, respectively.

On-X

The On-X products include the On-X prosthetic aortic and mitral heart valves and the On-X ascending aortic prosthesis ("AAP") for heart valve replacement. On-X product revenues also include revenues from the distribution of CarbonAid® CO₂ diffusion catheters and from the sale of Chord-X® ePTFE sutures for mitral chordal replacement. On-X products also generates revenue from pyrolytic carbon coating products produced for OEM customers.

On-X product revenues increased 17% and 13% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021.

On-X product revenues, excluding OEM, increased 19% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. This increase was primarily due to an increase in volume of units sold, which increased revenues by 19%, and an increase in average sales prices, which increased revenues by 1%, partially offset by the effect of foreign exchange rates, which decreased revenues by 1%.

On-X product revenues, excluding OEM, increased 13% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. This increase was primarily due to an increase in volume of units sold, which increased revenues by 12%, and an increase in average sales prices, which increased revenues by 2%, partially offset by the effect of foreign exchange rates, which decreased revenues by 1%.

On a constant currency basis, On-X product revenues, excluding OEM, increased 20% and 15% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. The increase in revenues in the three months ended September 30, 2022 was primarily due to revenue increases in North America, EMEA and APAC. The increase in revenues in the nine months ended September 30, 2022 was primarily due to revenue increases in North America, EMEA, and Latin America. The revenue increases in these markets were partially due to improved conditions from the COVID-19 pandemic for the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021. The increase in revenues in North America for the three and nine months ended September 30, 2022 was also impacted by customer buying patterns. The increase in revenues in EMEA was also impacted by an increase of shipments in direct markets for the three and nine months ended September 30, 2022, and an increase of shipments in indirect markets for the three months ended September 30, 2022. The increase in revenues in Latin America for the three and nine months ended September 30, 2022 was also impacted by market penetration in certain regions. On-X OEM sales accounted for less than 1% of product revenues for both the three and nine months ended September 30, 2022 and 2021.

Other

Other revenues are comprised of PhotoFix, PerClot (prior to the Baxter Transaction, described below), and CardioGenesis cardiac laser therapy product revenues.

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On July 28, 2021 we entered into an asset purchase agreement and other ancillary agreements related to the sale of PerClot, a polysaccharide hemostatic agent used in surgery, to Baxter, and an agreement to terminate all of our material agreements with Starch Medical, Inc. ("SMI") related to PerClot (collectively the "Baxter Transaction").

Other revenues increased 6% and 5% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021.

The increase in other revenues for the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021 was primarily due to an increase in CardioGenesis cardiac laser therapy product revenues, partially offset by a decrease in PerClot product revenues. The increase in CardioGenesis cardiac laser therapy product revenues for the three and nine months ended September 30, 2022 was primarily due to our ability to resume limited sales of handpieces during the fourth quarter of 2021, as further described below. The decrease in PerClot product revenues for the three and nine months ended September 30, 2022 was due to the Baxter Transaction, described in more detail in Part II, Item 7, "Sale of PerClot" of our annual report on Form 10-K for the year ended December 31, 2021.

Revenues from our CardioGenesis cardiac laser therapy product line historically consisted primarily of sales of handpieces and, in certain periods, the sale of laser consoles. During the three and nine months ended September 30, 2021 we had minimal revenues from the CardioGenesis cardiac laser therapy product line as we did not have a supply of handpieces due to the FDA's review of our supplier's change in manufacturing location. After obtaining approval, our supplier resumed manufacturing a limited supply of handpieces allowing us to resume limited sales during the fourth quarter of 2021.

Preservation Services

Preservation services include service revenues from processing cardiac and vascular tissues. Our cardiac valves are primarily used in cardiac replacement and reconstruction surgeries, including the Ross procedure, for patients with endocarditis or congenital heart defects. The majority of our vascular preservation services revenues are related to shipments of saphenous veins, which are mainly used in peripheral vascular reconstruction surgeries to avoid limb amputations. Competition with synthetic product alternatives and the availability of tissues for processing are key factors affecting revenue volume that can fluctuate from quarter to quarter. Our cardiac and vascular tissues are primarily distributed in domestic markets.

We continue to evaluate modifications to our tissue processing procedures in an effort to improve tissue processing throughput, reduce costs, and maintain quality across our tissue processing business. Preservation services revenues, particularly revenues for certain high-demand cardiac tissues, can vary from quarter to quarter and year to year due to a variety of factors, including quantity and type of incoming tissues, yields of tissue through the preservation process, timing of receipt of donor information, timing of the release of tissues for implant, demand for certain tissue types due to the number and type of procedures being performed, and pressures from competing products or services.

In the fourth quarter of 2020 we became aware that a supplier shipped to us a saline solution lot that we use in our tissue processing that contained some contamination in a small number of bottles of the solution lot. The contamination was identified by our in-process quality controls. The contaminated solution was estimated to have impacted a small percentage of tissue processed with this solution lot, causing us to write-off approximately \$826,000 of tissue in the fourth quarter of 2020. An additional \$5.0 million of tissue was quarantined in process pending further testing. Upon completion, and FDA acceptance of the testing, we began releasing tissue meeting our release criteria late in the second quarter of 2021. We believe that the written-off and quarantined tissue impacted the availability of tissue for distribution, which had a negative impact on revenue in the first quarter of 2021, and, to a lesser extent, the second quarter of 2021.

Revenues from tissue processing increased 13% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. The increase in revenues for the three months ended September 30, 2022 was primarily due to an increase in tissue shipments, which increased revenues by 10%, and an increase in average sales prices, which increased revenues by 3%.

Revenues from tissue processing increased 10% for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. The increase in revenues for the nine months ended September 30, 2022 was primarily due to an increase of tissues shipped, which increased revenues by 7%, and an increase in average sales prices, which increased revenues by 3%.

The increase in revenues from tissue processing for the three and nine months ended September 30, 2022 was primarily due to an increase in medical procedures that utilize our cardiac tissues.

Cost of Products and Preservation Services

Cost of Products

	Three Mo Septen			Ended 30,		
	 2022	2021		2022		2021
Cost of products	\$ 17,743	\$ 15,503	\$	53,381	\$	46,592

Cost of products increased 14% and 15% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. Cost of products for the three and nine months ended September 30, 2022 and 2021 included costs related to aortic stent grafts, On-X products, surgical sealants, and other products.

The increase in cost of products for the three and nine months ended September 30, 2022 was primarily due to an increase in shipments of aortic stent grafts and On-X products as well as an increase in the cost of surgical sealants and aortic stent grafts, as compared to the three and nine months ended September 30, 2021.

Cost of Preservation Services

	Three Mor Septem		Nine Mon Septem	ths Ended iber 30,		
	2022	2021	2022		2021	
Cost of preservation services	\$ 10,351	\$ 8,915	\$ 29,375	\$	26,710	

Cost of preservation services increased 16% and 10% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. Cost of preservation services included costs for cardiac and vascular tissue preservation services.

The increase in cost of preservation services for the three and nine months ended September 30, 2022 was primarily due to an increase in the processing cost of cardiac and vascular tissues, and, to a lesser extent, due to an increase in shipments, as compared to the three and nine months ended September 30, 2021.

Gross Margin

	Three Moi Septem			Ended 30,		
	 2022	2021		2022		2021
Gross margin	\$ 48,744	\$ 47,789	\$	151,635	\$	146,140
Gross margin as a percentage of total revenues	63%	66%		65%		67%

Gross margin increased 2% and 4% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. The increase for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021, was primarily due to an increase in shipments of all products, partially offset by the effect of foreign exchange rates and an increase in cost of certain products. Gross margin as a percentage of total revenues decreased for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021, primarily due to an increase in product costs of certain products sold resulting from inflationary pressures of materials and labor, and to a lesser extent, the mix of products shipped, partially offset by favorable pricing of certain products during the three months ended September 30, 2022.

The increase for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021, was primarily due to an increase in shipments of aortic stent grafts, On-X products, and preservation services partially offset by the effect of foreign exchange rates and an increase in cost of certain products. Gross margin as a percentage of total revenues decreased for the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021, primarily due to an increase in product costs of certain products sold resulting from inflationary pressures of materials and labor, and to a lesser extent, the mix of products shipped, partially offset by favorable pricing of certain products during the nine months ended September 30, 2022.

Operating Expenses

General, Administrative, and Marketing Expenses

	Three Months Ended September 30,				Nine Months Ended September 30,			
		2022		2021	2022		2021	
General, administrative, and marketing expenses	\$	41,051	\$	39,053	\$ 118,989	\$	118,521	
General, administrative, and marketing expenses as a percentage of total revenues		53%		54%	51%		54%	

General, administrative, and marketing expenses increased 5% for the three months ended September 30, 2022, as compared to the three months ended September 30, 2021. General, administrative, and marketing expenses were flat in the nine months ended September 30, 2022, as compared to the nine months ended September 30, 2021. The increase in General, administrative, and marketing expenses for the three months ended September 30, 2022 was primarily due to an increase in personnel-related and marketing costs. General, administrative, and marketing expenses for the nine months ended September 30, 2022 included an increase in personnel-related and marketing costs offset by a decrease in business development expenses.

General, administrative, and marketing expenses included \$864,000 of business development expense and \$3.8 million of business development income for the three and nine months ended September 30, 2022, respectively, as compared to \$1.3 million and \$6.1 million of expense for the three and nine months ended September 30, 2021, respectively. We incurred \$400,000 of business development expense and \$4.6 million of business development income during the three and nine months ended September 30, 2022, respectively, related to the fair value adjustments for the Ascyrus contingent consideration, as compared to \$700,000 and \$5.0 million of business development expense during the three and nine months ended September 30, 2021, respectively.

Research and Development Expenses

	Three Months Ended September 30,			Nine Months Ended September 30,			
•	2022		2021	2022		2021	
Research and development expenses	\$ 11,799	\$	9,972	\$ 30,575	\$	26,086	
Research and development expenses as a percentage of total revenues	15%		14%	13%		12%	

Research and development expenses increased 18% and 17% for the three and nine months ended September 30, 2022, respectively, as compared to the three and nine months ended September 30, 2021. Research and development spending for the three and nine months ended September 30, 2022 was primarily focused on clinical work to gain regulatory approvals for On-X, certain aortic stent grafts, and PerClot products.

On September 23, 2022 we announced that we were stopping the PROACT Xa clinical trial as recommended by the trial's independent Data and Safety Monitoring Board. The PROACT Xa clinical trial was a prospective, randomized, trial designed to determine if patients with On-X mechanical aortic valves could be maintained safely and effectively on apixaban rather than on warfarin. As a result of PROACT Xa's early termination, we recorded \$4.7 million of termination and wind-down expenses that are included in Research and development operating expenses on the Condensed Consolidated Statements of Operations and Comprehensive (Loss) Income for the three and nine months ended September 30, 2022. The majority of these costs include future administrative costs that will be incurred during the fourth quarter of

2022 and the first quarter of 2023, as well as the estimated cost of clinical drugs purchased for patients participating in the study that are not expected to be recovered. See Part II, Item 1, "Business" of our annual report on Form 10-K for the year ended December 31, 2021 for further detail of the PROACT Xa trial

Gain from Sale of Non-Financial Assets

Gain from sale of non-financial assets for the three and nine months ended September 30, 2021 consisted of the net \$15.9 million gain from the sale of PerClot assets as part of the Baxter Transaction on July 28, 2021.

Interest Expense

Interest expense was \$4.8 million and \$12.9 million for the three and nine months ended September 30, 2022, respectively, as compared to \$4.1 million and \$13.0 million for the three and nine months ended September 30, 2021, respectively. Interest expense for the three and nine months ended September 30, 2022 and 2021 relates to interest on debt and uncertain tax positions.

Other Expense, Net

Other expense, net was \$3.7 million and \$7.6 million for the three and nine months ended September 30, 2022, respectively, as compared to \$2.7 million and \$3.3 million for the three and nine months ended September 30, 2021, respectively. Other expense, net primarily includes the realized and unrealized effects of foreign currency gains and losses.

Earnings

(Table in thousands, except per share data)

	Three Months Ended September 30,				Nine Months Ended September 30,			
	2022		2021	-	2022		2021	
(Loss) income before income taxes	\$ (12,532)	\$	7,944	\$	(18,261)	\$	1,260	
Income tax expense (benefit)	1,181		(2,638)		3,100		(4,006)	
Net (loss) income	\$ (13,713)	\$	10,582	\$	(21,361)	\$	5,266	
	_				_		_	
Diluted (loss) income per common share	\$ (0.34)	\$	0.26	\$	(0.53)	\$	0.13	
Diluted weighted-average common shares outstanding	40,115		44,453		39,999		39,496	

We incurred a loss before income taxes for the three and nine months ended September 30, 2022 and experienced an income before income taxes for the three and nine months ended September 30, 2021. The loss before income taxes for the three and nine months ended September 30, 2022 was negatively impacted by an increase in certain operating expenses to support revenue expansion, an increase in investments in the research and development pipeline, and an unfavorable impact of foreign currency gains and losses. The loss before income taxes was partially offset by the change in fair value of our financial instruments for the nine months ended September 30, 2022. The income before income taxes for the three and nine months ended September 30, 2021 was primarily due to a gain from sale of non-financial assets related to the Baxter Transaction described above, partially offset by business development, integration and severance expenses primarily related to the Ascyrus acquisition, and investments in the research and development pipeline. Revenues for the three and nine months ended September 30, 2022 and 2021 were also unfavorably impacted by delays or cancellations of some surgical procedures as a result of reduced hospital capacity and staffing and hospital restrictions due to the COVID-19 pandemic in certain regions. The revenue impact from COVID-19 was smaller and varied regionally during the three and nine months ended September 30, 2022, as compared to the three and nine months ended September 30, 2021.

Our effective income tax rate was an expense of 9% and 17% for the three and nine months ended September 30, 2022, respectively, as compared to a benefit of 33% and 318% for the three and nine months ended September 30, 2021, respectively. The change in the tax rate for the three and nine months ended September 30, 2022 was primarily due to changes in pre-tax book income, a decrease in the excess tax benefit related to stock compensation, and an increase in the estimated current year valuation allowance, as compared to the three and nine months ended September 30, 2021.

Our income tax rate for the three and nine months ended September 30, 2022 was primarily impacted by changes in our valuation allowance against our net deferred tax assets, non-deductible executive compensation, the foreign derived intangible income deduction, the research and development tax credit, changes in our uncertain tax position liabilities, and tax shortfalls on stock compensation.

Our income tax rate for the three and nine months ended September 30, 2021 was primarily impacted by non-deductible executive compensation, changes in our valuation allowance against our deferred tax assets, changes in our uncertain tax position liabilities, the research and development tax credit, and excess tax benefits on stock compensation.

We incurred net loss and diluted loss per common share for the three and nine months ended September 30, 2022 and experienced net income and diluted income per common share for the three and nine months ended September 30, 2021. Net loss and diluted loss per common share for the three and nine months ended September 30, 2022 was primarily due to loss before income taxes, as discussed above.

Seasonality

As a result of the uncertainty and other impacts of the COVID-19 pandemic and the resulting shifts of timing in some revenue, our historically observable seasonality of revenues has been impacted or obscured in 2021 and 2022 and potentially beyond.

Historically, we believe the demand for most of our aortic stent grafts is seasonal, with a decline in demand generally occurring in the third quarter due to the summer holiday season in Europe. We are uncertain whether the demand for AMDS and NEXUS products is seasonal, as these products have not fully penetrated many markets and, therefore, the nature of any seasonal trends may not yet be obvious.

Historically, we believe the demand for BioGlue and On-X products is seasonal, with a decline in demand generally occurring in the third quarter followed by stronger demand in the fourth quarter. We believe that this trend may be due to the summer holiday season in Europe and the US.

We do not believe the demand for our other products is seasonal.

Demand for our cardiac preservation services has traditionally been seasonal, with peak demand generally occurring in the third quarter. We believe this trend for cardiac preservation services is primarily due to the high number of surgeries scheduled during the summer months for school-aged patients. Based on experience in recent years, we believe that this trend is lessening as we are distributing a higher percentage of our tissues for use in adult populations.

Demand for our vascular preservation services has also traditionally been seasonal, with lowest demand generally occurring in the fourth quarter. We believe this trend for vascular preservation services was primarily due to fewer vascular surgeries being scheduled during the winter holiday months.

Liquidity and Capital Resources

Net Working Capital

As of September 30, 2022 net working capital (current assets of \$238.0 million less current liabilities of \$46.0 million) was \$192.0 million, with a current ratio (current assets divided by current liabilities) of 5 to 1, as compared to net working capital of \$202.7 million and a current ratio of 6 to 1 at December 31, 2021.

Overall Liquidity and Capital Resources

Our primary cash requirements for the nine months ended September 30, 2022 were for general working capital needs, capital expenditures for facilities and equipment, interest and principal payments under our Credit Agreement (defined below), interest payments under our Convertible Senior Notes (defined below), and repurchases of stock to cover tax withholdings. We funded our cash requirements through our existing cash reserves and proceeds from stock option exercises.

We believe our cash from operations and existing cash and cash equivalents will enable us to meet our current operational liquidity needs for at least the next twelve months. Our future cash requirements are expected to include interest and principal payments under our Credit Agreement and Convertible Senior Notes (described in "Significant Sources and Uses

of Liquidity" section below), expenditures for clinical trials, research and development expenditures, general working capital needs, capital expenditures, and other corporate purposes and may include cash to fund business development activities including obligations in the agreements related to the Endospan and Ascyrus transactions. These items may have a significant effect on our future cash flows during the next twelve months. Subject to the terms of our Credit Agreement, we may seek additional borrowing capacity or financing, pursuant to our current or any future shelf registration statement, for general corporate purposes or to fund other future cash requirements. If we undertake any further significant business development activity, we may need to finance such activities by obtaining additional debt financing or using a registration statement to sell equity securities. There can be no assurance that we will be able to obtain any additional debt or equity financing at the time needed or that such financing will be available on terms that are favorable or acceptable to us.

Significant Sources and Uses of Liquidity

On December 1, 2017 we entered into a credit and guaranty agreement for a \$255.0 million senior secured credit facility, consisting of a \$225.0 million secured term loan facility (the "Term Loan Facility") and a \$30.0 million secured revolving credit facility (the "Revolving Credit Facility" and, together with the Term Loan Facility, the "Credit Agreement"). We and each of our existing domestic subsidiaries (subject to certain exceptions and exclusions) guarantee the obligations under the Credit Agreement (the "Guarantors"). The Credit Agreement is secured by a security interest in substantially all existing and after-acquired real and personal property (subject to certain exceptions and exclusions) of us and the Guarantors.

On June 2, 2021 we entered into an amendment to our Credit Agreement to extend the maturity dates of both our Term Loan and Revolving Credit Facility. As part of the amendment, the maturity dates of both our Term Loan and Revolving Credit Facility were each extended by two and one-half years, until June 1, 2027 and June 1, 2025, respectively, subject to earlier springing maturities triggered if our 4.25% Convertible Senior Notes, described below, remain outstanding on April 1, 2025 and December 31, 2024, respectively. With respect to the Term Loan, if the Convertible Senior Notes remain outstanding on April 1, 2025, the Term Loan's Maturity Date will be April 1, 2025, or, if the Convertible Senior Notes' own maturity date has been extended, the earlier of (i) 91 days prior to the Convertible Senior Notes' new maturity date and (ii) June 1, 2027. In the case of the Revolving Credit Facility, if the Convertible Senior Notes are still outstanding on December 31, 2024, the Revolving Credit Facility's Maturity Date will be either December 31, 2024 or, if the Convertible Senior Notes' own maturity date has been extended, the earlier of (i) 182 days prior to the Convertible Senior Notes' new maturity date and (ii) June 1, 2025. Under the amendment, the Term Loan Facility bears interest, at our option, at a floating annual rate equal to either the base rate, plus a margin of 2.50%, or LIBOR, plus a margin of 3.50%. Prior to the amendment, the optional floating annual rate was equal to either the base rate plus a margin of LiBOR, plus a margin of 3.25%.

On June 18, 2020 we issued \$100.0 million aggregate principal amount of 4.25% Convertible Senior Notes with a maturity date of July 1, 2025 (the "Convertible Senior Notes"). The net proceeds from this offering, after deducting initial purchasers' discounts and costs directly related to this offering, were approximately \$96.5 million. On January 1, 2021 we adopted ASU 2020-06 and adjusted the carrying balance of the Convertible Senior Notes to notional. The Convertible Senior Notes balance was \$100.0 million recorded in Long-term debt on the Condensed Consolidated Balance Sheets as of September 30, 2022. The Convertible Senior Notes may be settled in cash, stock, or a combination thereof, solely at our discretion. The initial conversion rate of the Convertible Senior Notes is 42.6203 shares per \$1,000 principal amount, which is equivalent to a conversion price of approximately \$23.46 per share, subject to adjustments. We use the if-converted method for assumed conversion of the Convertible Senior Notes for the diluted earnings per share calculation. The fair value and the effective interest rate of the Convertible Senior Notes as of September 30, 2022 was approximately \$92.3 million and 5.05%, respectively. The fair value was based on market prices observable for similar instruments and is considered Level 2 in the fair value hierarchy.

The interest expense recognized on the Convertible Senior Notes includes \$1.2 million and \$3.7 million for the three and nine months ended September 30, 2022, respectively, and \$1.2 million and \$3.7 million for the three and nine months ended September 30, 2021, respectively, related to the aggregate of the contractual coupon interest, and the amortization of the debt issuance costs. Interest on the Convertible Senior Notes began accruing upon issuance and is payable semi-annually.

Holders of the Convertible Senior Notes may convert their notes at their option at any time prior to January 1, 2025 but only under the following circumstances: (i) during any calendar quarter commencing after the calendar quarter ending on September 30, 2020 (and only during such calendar quarter), if the last reported sale price of our common stock for at least 20 trading days (whether or not consecutive) during a period of 30 consecutive trading days ending on, and including, the last trading day of the immediately preceding calendar quarter is greater than or equal to 130% of the conversion price on

each applicable trading day; (ii) during the five business day period after any five consecutive trading day period in which the trading price per \$1,000 principal amount of notes for each trading day of the measurement period was less than 98% of the product of the last reported sale price of our common stock and the conversion rate on each such trading day; (iii) we give a notice of redemption with respect to any or all of the notes, at any time prior to the close of business on the second scheduled trading day immediately preceding the redemption date; or (iv) upon the occurrence of specified corporate events. On or after January 1, 2025 until the close of business on the second scheduled trading day immediately preceding the maturity date, holders may convert their notes at any time, regardless of the foregoing circumstances.

We cannot redeem the Convertible Senior Notes before July 5, 2023. We can redeem them on or after July 5, 2023, in whole or in part, at our option, if the last reported sale price per share of our common stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which we provide notice of redemption. We may redeem for cash all or part of the Convertible Senior Notes at a redemption price equal to 100% of the principal amount of the redeemable Convertible Senior Notes, plus accrued and unpaid interest to, but excluding, the redemption date. No principal payments are due on the Convertible Senior Notes prior to maturity. Other than restrictions relating to certain fundamental changes and consolidations, mergers or asset sales and customary anti-dilution adjustments, the Convertible Senior Notes do not contain any financial covenants and do not restrict us from conducting significant restructuring transactions or issuing or repurchasing any of its other securities.

As of September 30, 2022 approximately 44% of our cash and cash equivalents were held in foreign jurisdictions.

The following table summarizes cash flows from operating activities, investing activities, and financing activities for the periods indicated (in thousands):

		Nine Months Ended September 30,				
	2022			2021		
Cash flows (used in) provided by:						
Operating activities	\$	(4,936)	\$	(3,301)		
Investing activities		(8,047)		8,472		
Financing activities		(780)		(3,422)		
Effect of exchange rate changes on cash and cash equivalents		(3,675)		1,418		
(Decrease) increase in cash and cash equivalents	\$	(17,438)	\$	3,167		

Net Cash Flows from Operating Activities

Net cash used in operating activities was \$4.9 million and \$3.3 million for the nine months ended September 30, 2022 and 2021, respectively.

We use the indirect method to prepare our cash flow statement and, accordingly, the operating cash flows are based on our net income, which is then adjusted to remove non-cash items, items classified as investing and financing cash flows, and changes in operating assets and liabilities from the prior year end. For the nine months ended September 30, 2022 these non-cash items included \$17.0 million in depreciation and amortization expenses, \$9.2 million in non-cash compensation, \$5.7 million of lease expenses, \$5.1 million of deferred income tax changes, and \$4.6 million in fair value adjustments of financial instruments

Our working capital needs, or changes in operating assets and liabilities, also affected cash from operations. For the nine months ended September 30, 2022 these included the unfavorable effect of \$10.9 million due to the timing differences between recording receivables and the receipt of cash, \$5.8 million due to an increase in inventory balances and deferred preservation costs, \$2.1 million due to timing differences between the recording of accounts payable and other current liabilities, and \$1.8 million due to an increase in prepaid expenses and other assets.

Net Cash Flows from Investing Activities

Net cash used in investing activities was \$8.0 million for the nine months ended September 30, 2022. Net cash provided by investing activities was \$8.5 million for the nine months ended September 30, 2021 cash used in investing activities primarily included \$6.9 million of cash used for capital expenditures.

Net Cash Flows from Financing Activities

Net cash used in financing activities was \$780,000 and \$3.4 million for the nine months ended September 30, 2022 and 2021, respectively. The current year cash used in financing activities was primarily due to \$2.0 million for the repayment of debt and \$1.8 million for repurchases of common stock to cover tax withholdings, partially offset by \$3.3 million of proceeds from the exercise of stock options and issuances of common stock.

Scheduled Contractual Obligations and Future Payments

Our long-term debt obligations and interest payments include \$315.4 million of scheduled principal payments and \$82.8 million in anticipated interest payments related to our Credit Agreement, Convertible Senior Notes, and other governmental loans.

We have contingent payment obligations that include up to \$100.0 million to be paid to the former shareholders of Ascyrus, upon the achievement of certain milestones. We are obliged to make a \$5.0 million third tranche payment under our loan agreement with Endospan upon receipt of certification that certain clinical trial milestones have been achieved. As part of the Baxter Transaction, we may be required to pay up to \$9.0 million if certain milestones are met.

Our operating and finance lease obligations result from the lease of land and buildings that comprise our corporate headquarters and our various manufacturing facilities; leases related to additional manufacturing, office, and warehouse space; leases on Company vehicles; and leases on a variety of office equipment and other equipment.

Capital Expenditures

Capital expenditures were \$6.9 million and \$10.5 million for the nine months ended September 30, 2022 and 2021, respectively. Capital expenditures for the nine months ended September 30, 2022 were primarily related to routine purchases of manufacturing and tissue processing equipment, computer software, leasehold improvements needed to support our business, and computer equipment.

Risks and Uncertainties

See the "Risk Factors" identified in Part II, Item 1A of this Form 10-Q.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Interest Rate Risk

Our interest income and interest expense are sensitive to changes in the general level of US interest rates. In this regard, changes in US interest rates affect the interest earned on our cash and cash equivalents of \$37.6 million as of September 30, 2022 and interest paid on the outstanding balances, if any, of our variable rate Revolving Credit Facility, Term Loan Facility, and Convertible Senior Notes. A 10% adverse change in interest rates, as compared to the rates experienced by us for the nine months ended September 30, 2022, affecting our cash and cash equivalents, Term Loan Facility, Revolving Credit Facility, and Convertible Senior Notes would not have a material effect on our financial position, results of operations, or cash flows.

Foreign Currency Exchange Rate Risk

We have balances, such as cash, accounts receivable, accounts payable, and accruals that are denominated in foreign currencies. These foreign currency denominated balances are sensitive to changes in exchange rates. In this regard, changes in exchange rates could cause a change in the US Dollar equivalent of cash or funds that we will receive in payment for assets or that we would have to pay to settle liabilities. As a result, we could be required to record these changes as gains or losses on foreign currency translation.

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We have revenues and expenses that are denominated in foreign currencies. Specifically, a portion of our international revenues from aortic stent grafts, surgical sealants, On-X, and other products are denominated in Euros, British Pounds, Swiss Francs, Polish Zlotys, Canadian Dollars, and Brazilian Reals and a portion of our General, administrative, and marketing expenses are denominated in Euros, British Pounds, Swiss Francs, Polish Zlotys, Canadian Dollars, Brazilian Reals, and Singapore Dollars. These foreign currency transactions are sensitive to changes in exchange rates. In this regard, changes in exchange rates could cause a change in the US Dollar equivalent of net income from transactions conducted in other currencies. As a result, we could recognize a reduction in revenues or an increase in expenses related to a change in exchange rates.

An additional 10% adverse change in exchange rates from the exchange rates in effect on September 30, 2022 affecting our balances denominated in foreign currencies could impact our financial position or cash flows by approximately \$7.0 million. An additional 10% adverse change in exchange rates from the weighted-average exchange rates experienced by us for the nine months ended September 30, 2022 affecting our revenue and expense transactions denominated in foreign currencies would not have had a material impact on our financial position, profitability, or cash flows.

Item 4. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures ("Disclosure Controls") as such term is defined under Rule 13a-15(e) promulgated under the Exchange Act. These Disclosure Controls are designed to ensure that information required to be disclosed in our Exchange Act reports is recorded, processed, summarized, and reported within the time periods specified in the Securities and Exchange Commission's rules and forms and that such information is accumulated and communicated to management, including to the Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), as appropriate, to allow timely decisions regarding required disclosures.

Our management, including our President and CEO and our Executive Vice President of Finance and CFO, does not expect that our Disclosure Controls will prevent all error and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. The design of any system of controls is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving our stated goals under all potential future conditions. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Due to the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within Artivion have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Our Disclosure Controls have been designed to provide reasonable assurance of achieving their objectives.

Our management utilizes the criteria set forth in "Internal Control-Integrated Framework (2013)" issued by the Committee of Sponsoring Organizations of the Treadway Commission to evaluate the effectiveness of our Disclosure Controls over financial reporting. Based upon the most recent Disclosure Controls evaluation conducted by management with the participation of the CEO and CFO, as of September 30, 2022 the CEO and CFO have concluded that our Disclosure Controls were effective at a reasonable assurance level to satisfy their objectives and to ensure that the information required to be disclosed by us in our periodic reports is accumulated and communicated to management, including the CEO and CFO, as appropriate to allow timely decisions regarding disclosure and is recorded, processed, summarized, and reported within the time periods specified in the US Securities and Exchange Commission's rules and forms.

Changes to Disclosure Controls and Procedures

There were no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the three months ended September 30, 2022 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.

From time to time, we are involved in legal proceedings concerning matters arising from the conduct of our business activities. We regularly evaluate the status of legal proceedings in which we are involved in order to assess whether a loss is probable or whether there is a reasonable possibility that a loss or additional loss may have been incurred and to determine if accruals are appropriate. We further evaluate each legal proceeding to assess whether an estimate of possible loss or range of loss can be made.

Based on current knowledge, we do not believe that there are any pending matters that could potentially have a material, adverse effect on our business, financial condition, results of operations, or cash flows. We are, however, engaged in various legal actions in the normal course of business. There can be no assurances in light of the inherent uncertainties involved in any potential legal proceedings, some of which are beyond our control, and an adverse outcome in any legal proceeding could be material to our results of operations or cash flows for any particular reporting period.

Item 1A. Risk Factors.

Risks Relating to Our Business

Our business involves a variety of risks and uncertainties, known and unknown, including, among others, the risks discussed below. These risks should be carefully considered together with the other information provided in this Quarterly Report on Form 10-Q and in our other filings with the SEC. Our failure to adequately anticipate or address these risks and uncertainties may have a material, adverse impact on our business, reputation, revenues, financial condition, profitability, and cash flows. Additional risks and uncertainties not presently known or knowable to us, or that we currently believe to be immaterial, may also adversely affect our business.

Business and Economic Risks

COVID-19, and similar outbreaks, could have a material, adverse impact on us.

Since early 2020, businesses, communities, and governments worldwide have taken, and continue to take, a wide range of actions to mitigate the spread and impact of COVID-19, leading to an unprecedented impact on the global economy. Hospitals and other healthcare providers have adopted differing approaches to address the surge and resurgence of COVID-19 cases, including their impact on healthcare workers and related global healthcare worker shortages, such as postponing elective and non-emergent procedures, restricting access to their facilities, cancelling elective procedures, or re-allocating scarce resources to some critically ill patients. Although many areas have seen a decline in COVID-19 cases, the potential for additional impact from new variants of COVID-19 remains. These conditions have, and could continue to, impact our activities, including:

- Our product sales. Certain countries experienced continued impact on revenues in the third quarter of 2022 due to the COVID-19 pandemic, and in particular, the impact of local lockdowns. In addition to COVID-19's impact on procedure volumes, including an impact on procedure volumes due in part to COVID-19-related healthcare staffing shortages and shortages from workers exiting healthcare, we have observed additional downstream effects on our business, including an increase in delays or difficulty in collecting certain outstanding receivables, particularly with certain governmental payors in regions heavily impacted by COVID-19. The extent to which our financial performance will be impacted by the pandemic through the remainder of 2022 and beyond will depend largely on future developments, including changes in hospital utilization rates and staffing, the prevalence and severity of new variants and their impact on case numbers and short-term quarantines, and the global availability and acceptance of COVID-19 vaccines and their effectiveness against variants. COVID-19's continued or increased impact on our financial performance may also increase the risks we face with respect to managing our indebtedness.
- Our business operations. In 2020 we took several steps to address the impact of COVID-19 on our employees, cash consumption, and operations, including reducing expenditures and delaying investments. Although we have scaled back most of these steps in most geographies, the COVID-19 virus and its variants remain highly contagious and may have additional impact on our business operations, including the potential to impact our workforce availability as case numbers and short-term quarantines increase due to the spread of new variants. COVID-19 also continues to impact our business partners, including the various regulators and notified bodies that we rely on, which increases the regulatory risks we face, and specifically, the risks we face with respect to timely review and approval of new and renewal certifications, clearances, and approvals for our products.

- Our manufacturing operations. The COVID-19 pandemic has continued to impact the global supply chain; the pandemic's impact on workforces, global mobility, material availability, demand, costs, and shipping and reorder time and reliability has reportedly continued or worsened in many cases. Although we have yet to experience any material effects of this impact on our supply chain or operations, we have faced increasing costs and face an increasing risk that upstream disruptions may occur and that increasing case numbers and short-term quarantines impact our workforce availability. Risks relating to the lingering effects of global supply chain disruptions may even continue after COVID-19's risk as a global pandemic has subsided.
- Our workforce. As some global economies have begun to emerge from the COVID-19 downturn, increased opportunities for remote work, the Great Resignation and increasing compensation pressure have resulted in a war for talent and an unprecedented number of career changes. The resulting worker shortages and increased labor costs at all levels have impacted supply chains, distribution channels, and employers' ability to adequately staff their operations. This has impacted not only our own ability to attract and retain employees, but also the ability of our customers who face increasing staffing pressures throughout their healthcare organizations.
- Our research and development projects. In 2020 and parts of 2021 we reduced spending on research and development projects, including clinical research projects. These reductions could adversely impact future revenue, and additional reductions in spending could be implemented, further impacting future revenue. In addition, our ability to conduct our ongoing research and development projects in markets that are affected by COVID-19 has been, and could continue to be, adversely impacted. Enrollment and timelines for our clinical trials have been, and might continue to be, impacted as healthcare providers re-prioritize resources, address staffing shortages, and limit access to healthcare facilities or as patients decline to participate or are hesitant to voluntarily visit healthcare facilities. In addition, staffing shortages and COVID-19-related impacts on government and regulatory agencies have slowed and might continue to slow timelines for regulatory actions, including approvals and recertifications.

If COVID-19 or its variants continue to spread, if efforts to contain COVID-19 or its variants continue or are unsuccessful, if we experience new outbreaks of COVID-19 in areas previously successful in containing its spread, if staffing shortages continue to impact us, governmental or regulatory bodies, or our customers, or if COVID-19, its variants, or disruptions to the global supply chain impact our supply chain or employee productivity, it could materially, adversely affect our revenues, financial condition, profitability, and cash flows. The nature and extent of these developments are highly uncertain and unpredictable and may vary greatly by region. These adverse developments or a prolonged period of uncertainty could adversely affect our financial performance.

We are subject to a variety of risks due to our international operations and continued global expansion.

Our international operations subject us to a number of risks, which may vary significantly from the risks we face in our US operations, including:

- Greater difficulties and costs associated with staffing, establishing and maintaining internal controls, managing foreign operations and distributor relationships, and selling directly to customers;
- Broader exposure to corruption and expanded compliance obligations, including under the Foreign Corrupt Practices Act, the UK Bribery Law, local anti-corruption laws, Office of Foreign Asset Control administered sanction programs, the European Union's General Data Protection Regulation, and other emerging corruption and data privacy regulations;
- Overlapping and potentially conflicting, or unexpected changes in, international legal and regulatory requirements or reimbursement policies and programs;
- Longer and more expensive collection cycles in certain countries, particularly those in which our primary customers are government-funded hospitals;
- Changes in currency exchange rates, particularly fluctuations in the Euro as compared to the US Dollar and inflationary pressures in Latin
- Potential adverse financial impact and negative erosion of our operating profit margin over time due to increasing inflationary pressures, particularly impacting our Latin American business as well as impact felt through our supply chain; our exposure may be increased through our limited ability to raise prices and through global expansion where business occurs with, or pricing is set directly by, government entities, or we are party to long term pricing agreements with governments or local distributors, impacting our ability to pass on rising costs;
- Potential adverse tax consequences of overlapping tax structures or potential changes in domestic and international tax policy, laws, and treaties;
- Potential adverse financial and regulatory consequences resulting from the exit of the UK from the European Union, or "Brexit."

Our operations and performance may also be impacted by regional and global geopolitical conditions, domestic and foreign trade and monetary policies, and other factors beyond our control. As an example of these risks, Russia's invasion and military attacks on Ukraine have triggered significant sanctions from the US and foreign governments and retaliatory actions from Russia, resulting in significant banking and trade disruptions. The war has also resulted in significant devastation to the people and infrastructure in the region, significantly impacting trade and transportation which may impact our global supply chain, increase prices, and limit our ability to continue to do business in affected regions.

To date, sanctions and other disruptions in the region have not materially impacted our business or ability to supply products to Russia, Belarus, Ukraine, and the region generally; however, continuation or escalation of the war or increased export controls or additional sanctions imposed on or by Russia, its allies, or related entities could adversely affect our financial performance. Although we do not have any direct operations in Russia or Ukraine, it is difficult to predict the ultimate course of the war and we may face business operations and supply chain disruptions as a result, including disruptions related to shortages of materials, higher costs of materials and freight, freight delays, increased energy costs or energy shortages, travel disruptions, currency fluctuation, and disruptions to banking systems or capital markets.

We operate in highly competitive market segments, face competition from large, well-established medical device companies and tissue service providers with greater resources and we may not be able to compete effectively.

The market for our products and services is competitive and affected by new product introductions and activities of other industry participants. We face intense competition in virtually all of our product lines. A significant percentage of market revenues from competitive products are generated by Baxter International, Inc.; Ethicon (a Johnson & Johnson Company); Medtronic, Inc.; Abbott Laboratories; Edwards Lifesciences Corp.; C.R. Bard, Inc., a subsidiary of Becton, Dickinson and Company; Integra Life Sciences Holdings; LifeNet; CORCYM; Anteris Technologies, Inc.; Aziyo Biologics; Cook Medical; Gore & Associates; Terumo Aortic Corp.; LeMaitre Vascular, Inc.; Maquet, Inc.; Pfizer, Inc.; and BioCer Entwicklungs-GmbH. Several of our competitors enjoy competitive advantages over us, including:

- Greater financial and other resources for research and development, commercialization, acquisitions, and litigation and to weather the impacts of COVID-19 and increased workforce competition;
- Greater name recognition as well as more recognizable trademarks for products similar to products that we sell;
- · More established record of obtaining and maintaining regulatory product clearances or approvals;
- More established relationships with healthcare providers and payors;
- · Lower cost of goods sold or preservation costs; and
- Larger direct sales forces and more established distribution networks.

We are significantly dependent on our revenues from tissue preservation services and are subject to a variety of risks affecting them.

Tissue preservation services are a significant source of our revenues, and as such, we face risks if we are unable to:

- Source sufficient quantities of some human tissue or address potential excess supply of others. We rely primarily upon the efforts of third-parties to educate the public and foster a willingness to donate tissue. Factors beyond our control such as supply, regulatory changes, negative publicity concerning methods of tissue recovery or disease transmission from donated tissue, or public opinion of the donor process as well as our own reputation in the industry can negatively impact the supply of tissue;
- Compete effectively, as we may be unable to capitalize on our clinical advantages or our competitors may have advantages over us in terms of cost structure, pricing, back-office automation, marketing, and sourcing; or
- Mitigate sufficiently the risk that tissue can become contaminated during processing; that processed tissue cannot be end-sterilized and hence carries an inherent risk of infection or disease transmission or that our quality controls can eliminate that risk.

As an example of this risk, in the fourth quarter of 2020 we became aware that a supplier shipped to us a lot of saline solution that we use in our tissue processing that contained some contamination. The contamination was identified by our routine quality controls. While we were able to mitigate the impact of this contamination through our own efforts and additional testing that was reviewed with the FDA, the contaminated solution impacted a small percentage of the tissue processed with this lot of solution, requiring us to write-off approximately \$826,000 in contaminated tissues in the fourth quarter of 2020. The written off and temporarily quarantined tissue impacted our ability to fully meet demand for certain tissues and sizes in the fourth quarter of 2020, the first quarter of 2021, and to a lesser extent the second quarter of 2021. See also, Part I, Item 1A, "Risk Factors—Operational Risks— We are dependent on our specialized workforce."

In addition, US and foreign governmental authorities have adopted laws and regulations that restrict tissue preservation services. Any of these laws or regulations could change, including becoming more restrictive or our interpretation of them could be challenged by governmental authorities.

We are significantly dependent on our revenues from BioGlue and are subject to a variety of related risks.

BioGlue Surgical Adhesive ("BioGlue") is a significant source of our revenues, and as such, any risk adversely affecting our BioGlue products or business would likely be material to our financial results. We face the following risks related to BioGlue:

- Competing effectively with our major and start up competitors, as they may have advantages over us in terms of cost structure, supply chain, pricing, sales force footprint, and brand recognition;
- We may be unable to obtain approval to commercialize BioGlue in certain non US countries as fast as our competitors do of their products or at all. We also may not be able to capitalize on new BioGlue approvals, including for new indications, in non US countries;
- BioGlue contains a bovine blood protein. Animal-based products are subject to increased scrutiny from the public and regulators, who may seek to impose additional regulations, regulatory hurdles or product bans in certain countries on such products; BioGlue is a mature product and other companies may use the inventions disclosed in expired BioGlue patents to develop and make competing products; and
- BioGlue faces potential adverse regulatory consequences resulting from the exit of the UK from the European Union, or "Brexit, as well as the impact of COVID-19 on regulatory authorities' ability to timely re-certify the Conformité Européene Mark ("CE Mark") for BioGlue" See Part I, Item 1A, "Risk Factors—Industry Risks—Our products and tissues are highly regulated and subject to significant quality and regulatory risks."

We are significantly dependent on our revenues from aortic stent grafts and are subject to a variety of related risks.

Aortic stent grafts are a significant source of our revenues, and as such, any risk adversely affecting aortic stent grafts would likely be material to our financial results. We face risks related to aortic stent grafts based on our ability to:

- Compete effectively with our major competitors, as they may have advantages over us in terms of cost structure, supply chain, pricing, sales force footprint, and brand recognition;
- Develop innovative, high quality, and in-demand aortic repair products;
- Respond adequately to enhanced regulatory requirements and enforcement activities, and particularly, our ability to obtain regulatory approvals and renewals globally;
- Meet demand for aortic stent grafts as we seek to expand our business globally; and
- Maintain a productive working relationship with our Works Council in Germany.

We are significantly dependent on our revenues from On-X products and are subject to a variety of related risks.

On-X products are a significant source of our revenues, and as such, any risk adversely affecting our On-X products or business would likely be material to our financial results. We face risks based on our ability to:

- Compete effectively with some of our major competitors, as they may have advantages over us in terms of cost structure, supply chain, pricing, sales force footprint, and brand recognition;
- Take market share in the mechanical heart valve market based on the FDA's approved lower International Normalized Ratio ("INR") indication for the On-X aortic heart valve or complete the associated FDA mandated post-approval studies;
- Address clinical trial data or changes in technology that may reduce the demand for mechanical heart valves, such as data regarding transcatheter aortic valve replacement, or "TAVR" devices;
- Manage risks associated with less favorable contract terms for On-X products on consignment at hospitals;
- · Respond adequately to enhanced international regulatory requirements or enforcement activities; and
- Receive timely renewal certifications in certain markets.

Continued fluctuation of foreign currencies relative to the US Dollar could materially, adversely affect our business.

The majority of our foreign product revenues are denominated in Euros and, as such, are sensitive to changes in exchange rates. In addition, a portion of our dollar-denominated and euro-denominated product sales are made to customers in other countries who must convert local currencies into US Dollars or Euros in order to purchase these products. We also have

balances, such as cash, accounts receivable, accounts payable, and accruals that are denominated in foreign currencies. These foreign currency transactions and balances are sensitive to changes in exchange rates. Additionally, as a result of global inflationary pressures, and in some cases, currency crises, it is possible that foreign currency controls, the development of parallel exchange rates, or highly inflationary economies could arise in certain countries. Fluctuations in exchange rates of Euros or other local currencies in relation to the US Dollar could materially reduce our future revenues as compared to the comparable prior periods. Should this occur, it could have a material, adverse impact on our revenues, financial condition, profitability, and cash flows.

Our charges resulting from acquisitions, restructurings, and integrations may materially, adversely affect the market value of our common stock.

We account for the completion of acquisitions using the purchase method of accounting. Our financial results could be adversely affected by a number of financial adjustments required by purchase accounting such as:

- We may incur added amortization expense over the estimated useful lives of some acquired intangible assets;
- We may incur additional depreciation expense as a result of recording purchased tangible assets;
- We may be required to incur material charges relating to any impairment of goodwill and intangible assets;
- Cost of sales may increase temporarily if acquired inventory is recorded at fair market value;
- If acquisition consideration consists of earn-outs, our earnings may be affected by changes in estimates of future contingent consideration; or
- Earnings may be affected by transaction and integration costs, which are expensed immediately.

As an example of this risk, in the fourth quarter of 2021, we fully impaired the value of the Endospan Option and fully wrote-down the value of the Endospan Loan, primarily driven by a decrease in forecasted operating results. This impairment, and other potential risks like those mentioned above, may adversely affect the market value of our common stock.

Operational Risks

We are heavily dependent on our suppliers and contract manufacturers to provide quality products.

The materials and supplies used in our product manufacturing and tissue processing are subject to regulatory requirements and oversight. If materials or supplies used in our processes fail to meet these requirements or are subject to regulatory enforcement action, they may have to be scrapped, or our products or tissues could be rejected during or after processing, recalled, or rejected by customers. In these cases, we may have to immediately scrap raw or in process materials or expense the costs of manufacturing or preservation.

As an example of this risk, in the fourth quarter of 2020 we became aware that a supplier shipped to us a lot of saline solution that we use in our tissue processing that contained some contamination. The contamination was identified by our routine quality controls. While we were able to mitigate the impact of this contamination through our own efforts and additional testing that was reviewed with the FDA, the contaminated solution impacted a small percentage of the tissue processed with this lot of solution, requiring us to write-off those contaminated tissues in the fourth quarter of 2020 and impacting our ability to fully meet demand for certain tissues and sizes in the fourth quarter of 2020, the first quarter of 2021, and to a lesser extent the second quarter of 2021.

In addition, if these materials or supplies or changes to them do not receive regulatory approval or are recalled, if the related suppliers and/or their facilities are shut down temporarily or permanently, for any reason, or if the related suppliers are otherwise unable or unwilling to supply us, we may not have sufficient materials or supplies to manufacture our products or process tissues. In addition, we rely on contract manufacturers to manufacture some of our products or to provide additional manufacturing capacity for some products. If these contract manufacturers fail to meet our quality standards or other requirements or if they are unable or unwilling to supply the products, we may not be able to meet demand for these products. Our ability to fully recover all possible losses from these suppliers and contract manufacturers may have practical limitations imposed by factors like industry standard contractual terms or the financial resources of the adverse party. As a further example of this risk, our supplier of TMR handpieces was informed in the fourth quarter of 2021 that the sole-source manufacturer of tubing used in the handpiece assembly had gone out of business, requiring us to work with our supplier to identify and qualify a new supplier before a disruption in handpiece availability occurs.

Finally, the COVID-19 pandemic and now inflation continued to impact the global supply chain; the pandemic's impact on workforces, global mobility, material availability, demand, and shipping and reorder time and reliability has reportedly continued or worsened in many cases. The ongoing war in Ukraine may add to or exacerbate challenges faced by the global supply chain. See Part I, Item 1A, "Risk Factors – Business and Economic Risks - We are subject to a variety of risks due to our international operations and continued global expansion." Although we have yet to experience any material effects of this impact on our supply chain or operations, we face an increasing risk that upstream disruptions may occur. Risks relating to the lingering effects of global supply chain disruptions may even continue after COVID-19's risk as a global pandemic and the war in Ukraine have subsided.

We are dependent on single and sole-source suppliers and single facilities.

Some of the materials, supplies, and services used in our product manufacturing and tissue processing, as well as some of our products, are sourced from single- or sole-source suppliers. As a result, our ability to negotiate favorable terms with those suppliers may be limited, and if those suppliers experience operational, financial, quality, or regulatory difficulties, or if those suppliers and/or their facilities refuse to supply us or cease operations temporarily or permanently, or if those suppliers take unreasonable business positions, we could be forced to cease product manufacturing or tissue processing until the suppliers resume operations, until alternative suppliers could be identified and qualified, or permanently if the suppliers do not resume operations and no alternative suppliers could be identified and qualified. We could also be forced to purchase alternative materials, supplies, or services with unfavorable terms due to diminished bargaining power.

As an example of these risks, in 2019 we lost our supply of handpieces for cardiac laser therapy resulting from a manufacturing location change at our supplier that ultimately required a Premarket Approval ("PMA") supplement and FDA approval before handpiece manufacturing and distribution could resume. Even though the FDA approved the PMA-S, our supplier was unable to fully resume production due to factors outside of our control. Due to these and other supplier issues, we had virtually no supply of handpieces during the first three quarters of 2021. Although handpiece supply resumed on a limited basis during the last quarter of 2021, we remain dependent on a sole-source manufacturer for these handpieces.

By way of additional non-limiting examples, our BioGlue product has three main product components: bovine protein, a cross linker, and a molded plastic resin delivery device. The bovine protein and cross linker are obtained from a small number of qualified suppliers. The delivery devices are manufactured by a single supplier, using resin supplied by a single supplier. We purchase grafts for our On-X AAP from a single supplier and various other components for our On-X valves come from single source suppliers.

Our preservation services business and our ability to supply needed tissues is dependent upon donation of tissues from human donors by donor families. Donated human tissue is procured from deceased human donors by OPOs and tissue banks. We must rely on the OPOs and tissue banks that we work with to educate the public on the need for donation, to foster a willingness to donate tissue, to follow our donor screening and procurement procedures, and to send donated tissue to us. We have active relationships with 59 OPOs and tissue banks throughout the US. As with any vendor, we believe these relationships with our OPOs are critical in the preservation services industry and that the breadth of these existing relationships provides us with a significant advantage over potential new entrants to this market. We also use various raw materials, including medicines and solutions, in our tissue processing. Some of these raw materials are manufactured by single suppliers or by a small group of suppliers.

Our aortic stent graft systems consist of two main product components: the stent graft and the delivery system. The stent graft is manufactured from several different raw materials that are manufactured internally or at various external suppliers, including single suppliers. The delivery systems we manufacture are comprised of several different raw materials and subassemblies. Our internal manufacturing processes include injection molding and machining of plastic parts, suturing of stent grafts, processing of Nitinol, and weaving of textiles. Our conventional polyester grafts consist of two main product components: polyester fabric and collagen coating. The polyester fabric is woven from a few different yarns that are supplied by an external supplier. The collagen suspension we manufacture is comprised of a collagenous tissue that is supplied by a single supplier. The conventional ePTFE grafts we manufacture are comprised of various raw materials supplied by several suppliers. For some products the ePTFE grafts are heparin coated. For these products, the heparin suspension we manufacture is comprised of a heparin solution that is also supplied by an external supplier.

We also conduct all of our own manufacturing operations at three facilities: Austin, Texas for On-X products, Hechingen, Germany for internally manufactured aortic stent grafts, and Kennesaw, Georgia for BioGlue, PerClot, PhotoFix, and tissue preservation services. The AMDS product is solely manufactured by a supplier in Charlotte, North Carolina, the

CardioGensis handpieces are solely manufactured by a supplier in Merrillville, Indiana, and the NEXUS product is solely manufactured by Endospan in Herzlia, Israel. If one of these facilities ceases operations temporarily or permanently, for any reason including a pandemic or climate change related event, our business could be substantially disrupted.

Although we work diligently to maintain adequate inventories of raw materials, components, supplies, subassemblies, and finished goods, there can be no assurance that we will be able to avoid all disruptions to our global supply chain, or disruptions to our sterilization or distribution networks. Any of these disruptions could have a material, adverse effect on our revenues, reputation, or profitability.

We are dependent on our specialized workforce.

Our business and future operating results depend in significant part upon the continued contributions of our specialized workforce, including key personnel, qualified personnel with medical device and tissue processing experience, and senior management with experience in the medical device or tissue processing space, some of whom would be difficult to replace. Our business and future operating results, including production at our manufacturing and tissue processing facilities, also depend in significant part on our ability to attract and retain qualified management, operations, processing, marketing, sales, and support personnel. Our primary facilities are in Kennesaw, Georgia; Austin, Texas; and Hechingen, Germany, where the supply of qualified medical device and tissue processing and other personnel is limited, competition for such personnel is significant, and we cannot ensure that we will be successful in attracting or retaining them. We face risks if we lose any key employees to other employers or due to severe illness, death, or retirement, if any of our key employees fail to perform adequately, or if we are unable to attract and retain skilled employees. This risk was exacerbated during 2021, and is expected to continue, as the competition for talent in the medical device industry and in the workforce generally has intensified substantially. As some global economies have begun to emerge from the COVID-19 downturn, the expiration of COVID-19 related hiring freezes, the Great Resignation, increased opportunities for remote work, and increasing compensation pressure have resulted in a war for talent and an unprecedented number of career changes. The resulting competition and worker shortages at all levels have impacted supply chains and distribution channels and our ability to attract and retain the specialized workforce necessary for our business and operations.

We continue to evaluate expansion through acquisitions of, or licenses with, investments in, and distribution arrangements with, other companies or technologies, which may carry significant risks.

One of our growth strategies is to pursue select acquisitions, licensing, or distribution rights with companies or technologies that complement our existing products, services, and infrastructure. In connection with one or more of these transactions, we may:

- Issue additional equity securities that would dilute our stockholders' ownership interest;
- Use cash we may need in the future to operate our business;
- Incur debt, including on terms that could be unfavorable to us or debt we might be unable to repay;
- Structure the transaction resulting in unfavorable tax consequences, such as a stock purchase that does not permit a step-up in basis for the assets acquired;
- Be unable to realize the anticipated benefits of the transaction; or
- Assume material unknown liabilities associated with the acquired business.

We may not realize all the anticipated benefits of our business development activities.

As part of our efforts to drive growth by pursuing select acquisition, license, and distribution opportunities that are aligned to our objectives and complement our existing products, services, and infrastructure or to divest non-core product lines, we have completed several transactions in recent years and may pursue similar additional transactions in the future. Examples of these activities include the following:

- On December 1, 2017 we acquired JOTEC AG, a Swiss entity that we converted to JOTEC GmbH and subsequently merged with our Swiss acquisition entity, Jolly Buyer Acquisition GmbH and its subsidiaries;
- On September 11, 2019 we entered into various agreements with Endospan, Ltd. ("Endospan"), an Israeli medical device manufacturer (the "Endospan Transaction"). The Endospan Transaction included an exclusive distribution agreement for the NEXUS stent graft system ("NEXUS") in Europe; an agreement ("Endospan Loan") for a secured loan from Artivion to Endospan; and a security purchase option agreement for Artivion to purchase all the then outstanding Endospan securities from Endospan's existing security holders upon FDA approval of NEXUS;

- On September 2, 2020 we acquired 100% of the outstanding shares of Ascyrus Medical LLC ("Ascyrus"), the developer of the Ascyrus Medical Dissection Stent ("AMDS"); and
- On July 28, 2021 we entered into various agreements with Baxter International, Inc. ("Baxter") and Starch Medical, Inc. ("SMI") related to the sale of our PerClot assets to Baxter and the termination of our existing material agreements with SMI (collectively the "Baxter Transaction").

Our ability to realize the anticipated business opportunities, growth prospects, cost savings, synergies, and other benefits of these transactions depends on a number of factors including our ability to:

- Leverage our global infrastructure to sell and cross-market the acquired products;
- Drive adoption of NEXUS and AMDS in the European and other markets, including our ability to manage the substantial product training, implant support, and proctoring requirements for NEXUS procedures;
- Bring acquired products to the US market, including our acquired aortic stent grafts;
- Harness the aortic stent graft product pipeline and our research and development capabilities;
- Obtain regulatory approvals in relevant markets, including our ability to timely obtain FDA PMA for PerClot under the terms of the Baxter Transaction and to obtain or maintain Conformité Européene Mark ("CE Mark") product certifications for pipeline and current products;
- Execute on development and clinical trial timelines for acquired products;
- Manage global inventories, including our ability to manage inventories for product lines with large numbers of product configurations and manage
 manufacturing and demand cycles to avoid excess inventory obsolescence due to shelf life expiration, particularly for processed tissues and aortic
 stent grafts;
- · Carry, service, and manage significant debt and repayment obligations; and
- · Manage the unforeseen risks and uncertainties related to these transactions, including any related to intellectual property rights.

Additionally, our ability to realize the anticipated business opportunities, growth prospects, synergies, and other benefits of the Endospan Transaction depends on a number of additional factors including Endospan's ability to: (a) comply with the Endospan Loan and other debt obligations, and avoid an event of default; (b) successfully commercialize NEXUS, raise capital and drive adoption in markets in and outside of Europe; (c) meet demand for NEXUS; (d) meet quality and regulatory requirements; (e) manage any intellectual property risks and uncertainties associated with NEXUS; (f) obtain FDA approval of NEXUS; (g) remain a going concern; and (h) develop NEXUS product improvements to meet competitive threats and physician demand. As an example of this risk, the forecasted operating results related to NEXUS decreased in the fourth quarter of 2021, resulting in an impairment in the value of the Endospan Option, and a full write-down of the value of the Endospan Loan, reflecting decreased expectations with respect to the anticipated benefits of the Endospan Transaction.

Many of these factors are outside of our control and any one of them could result in increased costs, decreased revenues, and diversion of management's time and energy. The benefits of these transactions may not be achieved within the anticipated time frame or at all. Any of these factors could negatively impact our earnings per share, decrease or delay the expected accretive effect of the transaction, and negatively impact the price of our common stock. In addition, if we fail to realize the anticipated benefits of a transaction, we could experience an interruption or loss of momentum in our existing business activities.

We may not realize all the anticipated benefits of our corporate rebranding and it may result in unanticipated disruptions to our on-going business.

In order to reflect our evolution to focus on providing innovative technologies to surgeons who treat patients with aortic disease, we changed our name to Artivion, Inc., effective January 18, 2022 (the "Corporate Rebrand"). The Corporate Rebrand also involved the adoption of a new ticker symbol on the New York Stock Exchange, "AORT." We may face unanticipated disruptions to our business arising from the Corporate Rebrand, and it may expose us to additional risks, including:

- Disruptions to our day-to-day business operations including disruptions to our ability to receive or our customers' ability to make timely payments;
- Disruptions to access to certain markets or segments due to delays or other issues with regulatory approvals or updates arising from the Corporate Rebrand;
- Unanticipated delays or other impact on our pending regulatory applications or clinical trials arising from the Corporate Rebrand;

- Confusion within the marketplace, particularly with multiple points of contact in our downstream product flow involving purchasing and accounts payable departments and end users;
- Intellectual property risks associated with the adoption of a new corporate identity and trade dress; and
- · Loss of brand equity associated with our legacy brands, including our CryoLife and JOTEC brands that will become less prominent over time.

The Corporate Rebrand involved significant financial and resource investment and will continue to do so as we complete our global brand transitions over the coming years. The anticipated benefits of the Corporate Rebrand may not be achieved within the anticipated timeframe, without additional near or long-term investment, or at all. Any of these factors could negatively impact our revenues, earnings per share, decrease or delay the expected accretive effect of the Corporate Rebrand, and negatively impact the price of our common stock.

Significant disruptions of information technology systems or breaches of information security systems could adversely affect our business.

We rely upon a combination of sophisticated information technology systems as well as traditional recordkeeping to operate our business. In the ordinary course of business, we collect, store, and transmit confidential information (including, but not limited to, information about our business, financial information, personal data, intellectual property, and, in some instances, patient data). Our information technology and information security systems and records are potentially vulnerable to security breaches, service interruptions, data loss, or malicious attacks resulting from inadvertent or intentional actions by our employees, vendors, or other third parties. In addition, due to the COVID-19 pandemic, we have implemented remote work arrangements for some employees, and those employees may use outside technology and systems that are vulnerable to security breaches, service interruptions, data loss or malicious attacks, including by third parties.

As an example of these risks, on November 1, 2019 we were notified that we had become a victim of a business e-mail compromise. During the fourth quarter of 2019, a company email account was compromised by a third-party impersonator and a payment intended for one of our US vendors in the amount of \$2.6 million was fraudulently re-directed into an individual bank account controlled by this third-party impersonator. Our cyber-insurance covered all but \$25,000 of the unrecovered losses from this compromise.

While we have invested, and continue to invest, in our information technology and information security systems and employee information security training, there can be no assurance that our efforts will prevent all security breaches, service interruptions, or data losses. We have limited cyber-insurance coverage that may not cover all possible events, and this insurance is subject to deductibles and coverage limitations. Any security breaches, service interruptions, or data losses could adversely affect our business operations or result in the loss of critical or sensitive confidential information or intellectual property, or in financial, legal, business, and reputational harm to us or allow third parties to gain material, inside information that they may use to trade in our securities.

Industry Risks

Our products and tissues are highly regulated and subject to significant quality and regulatory risks.

The commercialization of medical devices and processing and distribution of human tissues are highly complex and subject to significant global quality and regulatory risks and as such, we face the following risks:

- Our products and tissues allegedly have caused, and may in the future cause, patient injury, which has exposed, and could in the future expose, us
 to liability claims that could lead to additional regulatory scrutiny;
- Our manufacturing and tissue processing operations are subject to regulatory scrutiny, inspections and enforcement actions, and regulatory
 agencies could require us to change or modify our operations or take other action, such as issuing product recalls or holds;
- Regulatory agencies could reclassify, re-evaluate, or suspend our clearances or approvals, or fail, or decline to, issue or reissue our clearances or approvals that are necessary to sell our products and distribute tissues;
- · Regulatory and quality requirements are subject to change, which could adversely affect our ability to sell our products or distribute tissues; and
- Adverse publicity associated with our products, processed tissues, or our industry could lead to a decreased use of our products or tissues, increased regulatory scrutiny, or product or tissue processing liability claims.

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Further, on May 25, 2017 the European Union adopted a new Medical Device Regulation (MDR 2017/745) ("MDR"), which was fully implemented on May 26, 2021. The MDR places stricter requirements on manufacturers and European Notified Bodies regarding, among other things, product classifications and pre- and post-market clinical studies for product clearances and approvals which could result in product reclassifications or the imposition of other regulatory requirements that could delay, impede, or prevent our ability to commercialize existing, improved, or new products in the European Economic Area and other markets that require CE Marking. Additionally, to the extent the MDR places stricter requirements on manufacturers of custom-made devices, those new requirements could delay, impede, or otherwise impact the availability of our E-xtra Design Engineering products. Finally, COVID-19 has impacted the predictability and timelines associated with the MDR transition.

Since the implementation of the MDR, Notified Bodies must review any proposed changes to determine if they require evaluation under the MDR or if they can still be evaluated under currently held MDD certifications. Our inability to obtain certifications for changes under the transitional provisions of the MDR's Article 120 or successfully submit proposed changes requiring MDR evaluation will delay implementation of those changes which could adversely impact our ability to obtain or renew certifications, clearances, or approvals for our products.

Additionally, as MDD-based CE Marks expire, recertification must be obtained under the MDR. Industry-wide, companies are experiencing delays in obtaining new and updated certifications under the MDR as notified bodies struggle to recover from COVID-19, deal with depleted workforces, and handle the volume of work required to transition tens of thousands of currently-marketed devices from the MDD to the MDR. As one such example, our MDD-based CE Mark for Chord-X expired in September 2022, which will impact our ability to supply certain territories once our saleable inventory is depleted. If Notified Bodies continue to struggle to meet demand and timely process submissions and recertifications, we may face additional disruptions associated with the MDR transition.

Finally, we anticipate additional regulatory impact as a result of the United Kingdom's exit from the European Union ("Brexit"). The UK Medicines and Healthcare Products Regulatory Agency has announced that CE Marking will continue to be recognized in the UK and certificates issued by EUrecognized Notified Bodies will continue to be valid in the UK market until June 30, 2023. Thereafter, all devices marketed in the UK will require UK Conformity Assessed Marks certified by a UK Approved Body (the re-designation of the UK Notified Body).

In 2019 our notified body in the UK, Lloyd's Register Quality Assurance Limited ("LRQA"), informed us that it would no longer provide Notified Body services for medical devices effective September 2019. The governing German competent authority, the Regierungspraesidium-Tubingen, granted us an extended grace period until December 31, 2021 to transfer LRQA-issued certifications for BioGlue and PhotoFix to a new Notified Body. We are currently in the process of transferring BioGlue and PhotoFix to our new Notified Body, DEKRA. While positive progress has been made, DEKRA has been unable to complete the registration and the renewal of our BioGlue CE Mark because it significantly delayed its last audit in that process, a Phase 2 onsite audit, due to COVID-19 restrictions on travel, staffing shortages, and workload related to the transition to the MDR. With the Phase 2 audit complete, we currently anticipate completing the registration and renewal process during the fourth quarter of 2022. In the interim, we have requested and received from the majority of relevant territories, derogations from certain individual European countries to allow us to continue to commercialize BioGlue in those countries until we can complete the certification process with DEKRA. For derogations expiring before we anticipate receiving the renewal of the BioGlue CE Mark, we have requested and anticipate receiving, extensions of the previously granted derogations. That said, failure to maintain key derogations in have a material, adverse impact on our business, and may also impact our Medical Device Single Audit Program ("MDSAP") certifications. Failure to timely obtain new MDSAP certifications following their expiration may impact our ability to distribute covered products in Australia, Brazil, Canada, and Japan. Additionally, although we don't anticipate a material impact, failure to obtain timely recertification for PhotoFix may impact our ability to supply certain markets with PhotoFix.

Reclassification by the FDA of CryoValve SG pulmonary heart valve ("CryoValve SGPV") may make it commercially infeasible to continue processing the CryoValve SGPV.

In December 2019 we learned that the FDA is preparing to issue a proposed rule for reclassification of more than minimally manipulated ("MMM") allograft heart valves to Class III medical devices, which could include our CryoValve SGPV. Following a comment period and subsequent publication of any final rule, should the CryoValve SGPV be determined to be MMM, we expect to have approximately thirty months to submit an FDA PMA application, after which the FDA will determine if, and for how long, we may continue to provide these tissues to customers during review of the PMA application. To date, the FDA has not issued such a proposed final rule.

If the FDA ultimately classifies our CryoValve SGPV as a Class III medical device, and if there are delays in obtaining the PMA, if we are unsuccessful in obtaining the PMA, or if the costs associated with these activities are significant, we could decide that the requirements for continued processing of the CryoValve SGPV are too onerous, leading us to discontinue distribution of these tissues.

We may not be successful in obtaining clinical results or regulatory clearances/approvals for new and existing products and services, and our approved products and services may not achieve market acceptance.

Our growth and profitability depends in part upon our ability to develop, and successfully introduce, new products and services, or expand upon existing indications, clearances, and approvals, requiring that we invest significant time and resources to obtain new regulatory clearances/approvals, including investment into pre- and post-market clinical studies. Although we believe certain products and services in our portfolio or under development may be effective in a particular application, we cannot be certain until we successfully execute on relevant clinical trials, and the results we obtain from pre- and post-market clinical studies may be insufficient for us to obtain or maintain any required regulatory approvals or clearances.

We are currently seeking regulatory approval for BioGlue in China, where the Chinese regulatory body has made additional requests, and expressed several concerns, related to the application. We have obtained an extension of time until February 2024 in which to secure approval for BioGlue in China. If we cannot obtain approval by then or the costs to do so are prohibitive, we ultimately may be unable to sell BioGlue in China.

As an example of this risk, in September 2022, we halted the PROACT Xa clinical trial based on the recommendation of the trial's Data and Safety Monitoring Board ("DSMB") due to insufficient evidence to support non-inferiority of apixaban to warfarin for valve thrombosis and thromboembolism. The DSMB found that continuing the trial was unlikely to achieve the primary endpoint while possibly exposing patients to increased risk.

Each of our trials, studies, and approvals is subject to the risks outlined herein.

We cannot give assurance that regulatory agencies will clear or approve these products and services or indications, or any new products and services or new indications, on a timely basis, if ever, or that the products and services or new indications will adequately meet the requirements of the market or achieve market acceptance. Pre- and post-market clinical studies may also be delayed or halted due to many factors beyond our control.

If we are unable to successfully complete the development of a product, service, or application, or if we determine for any reason not to complete development or obtain regulatory approval or clearance of any product, service, or application, particularly in instances when we have expended significant capital, this could materially, adversely affect our financial performance. Research and development efforts are time consuming and expensive, and we cannot be certain that these efforts will lead to commercially successful products or services. Halting R&D efforts and clinical trials prematurely may lead to accelerated or unanticipated wind down costs. Even the successful commercialization of a new product or service in the medical industry can be characterized by slow growth and high costs associated with marketing, under-utilized production capacity, and continuing research and development and education costs, among other things. The introduction of new products or services may require significant physician training or years of clinical evidence in order to gain acceptance in the medical community.

Regulatory enforcement activities regarding Ethylene Oxide, which is used to sterilize some of our products and components, could have a material, adverse impact on us.

Some of our products, including our On-X products, are sterilized using Ethylene Oxide ("EtO"). Although we have a small-scale EtO facility in Austin, Texas, we rely primarily on large-scale EtO facilities to sterilize our products. In addition, some of our suppliers use, or rely upon third parties to use, EtO to sterilize some of our product components. Concerns about the release of EtO into the environment at unsafe levels have led to increased activism and lobbying as well as various regulatory enforcement activities against EtO facilities, including closures and temporary closures, lawsuits against EtO service providers, and proposals increasing regulations related to EtO. The number of EtO facilities in the US is limited, and any permanent or temporary closures or disruption to their operations for any reason could delay, impede, or prevent our ability to commercialize our products. In addition, any regulatory enforcement activities against us for our use of EtO could result in financial, legal, business, and reputational harm to us.

We may be subject to fines, penalties, and other sanctions if we are deemed to be promoting the use of our products for unapproved, or off-label, uses.

Our business and future growth depend on the continued use of our products for approved uses. Generally, regulators contend that, unless our products are approved or cleared by a regulatory body for alternative uses, we may not make claims about the safety or effectiveness of our products or promote them for such uses. Such limitations present a risk that law enforcement could allege that the nature and scope of our sales, marketing, or support activities, though designed to comply with all regulatory requirements, constitute unlawful promotion of our products for an unapproved use. We also face the risk that such authorities might pursue enforcement based on past activities that we discontinued or changed. Investigations concerning the promotion of unapproved uses and related issues are typically expensive, disruptive, and burdensome and generate negative publicity. If our promotional activities are found to be in violation of the law, we may face significant fines and penalties and may be required to substantially change our sales, promotion, grant, and educational activities. In addition, we or our officers could be excluded from participation in government healthcare programs such as Medicare and Medicaid.

Healthcare policy changes may have a material, adverse effect on us.

In response to perceived increases in healthcare costs in recent years, there have been, and continue to be, proposals by the governmental authorities, third-party payors, and elected office holders and candidates to impact public health, control healthcare costs and, more generally, to reform the healthcare systems. Additional uncertainty is anticipated as debates about healthcare, vaccines, and public health continue in light of the COVID-19 pandemic which may have an impact on US law relating to the healthcare industry. Many US healthcare laws, such as the Affordable Care Act, are complex, subject to change, and dependent on interpretation and enforcement decisions from government agencies with broad discretion. The application of these laws to us, our customers, or the specific services and relationships we have with our customers is not always clear. Our failure to anticipate accurately any changes to, or the repeal or invalidation of all or part of the Affordable Care Act and similar or future laws and regulations, or our failure to comply with them, could create liability for us, result in adverse publicity and negatively affect our business, results of operations, and financial condition.

Further, the growth of our business, results of operations and financial condition rely, in part, on customers in the healthcare industry that receive substantial revenues from governmental and other third-party payer programs. A reduction or less than expected increase in government funding for these programs or a change in reimbursement or allocation methodologies, or a change in reimbursement related to products designated as "breakthrough devices" by the FDA, could negatively affect our customers' businesses and, in turn, negatively impact our business, results of operations and financial condition. Any changes that lower reimbursement for our products or reduce medical procedure volumes, could adversely affect our business and profitability.

Legal, Quality, and Regulatory Risks

As a medical device manufacturer and tissue services provider we are exposed to risk of product liability claims and our existing insurance coverage may be insufficient, or we may be unable to obtain insurance in the future, to cover any resulting liability.

Our products and processed tissues allegedly have caused, and may in the future cause, injury or result in other serious complications that may result in product or other liability claims from our customers or their patients. If our products are defectively designed, manufactured, or labeled, or contain inadequate warnings, defective components, or are misused, or are used contrary to our warnings, instructions, and approved indications, we may become subject to costly litigation that can have unpredictable and sometimes extreme outcomes.

We maintain claims-made insurance policies to mitigate our financial exposure to product and tissue processing liability and securities, claims, among others, that are reported to the insurance carrier while the policy is in effect. These policies do not include coverage for punitive damages. Although we have insurance for product and tissue processing liabilities, securities, property, and general liabilities, if we are unsuccessful in arranging cost-effective acceptable resolutions of claims, it is possible that our insurance program may not be adequate to cover any or all possible claims or losses, including losses arising out of natural disasters or catastrophic circumstances. Any significant claim could result in an increase in our insurance rates or jeopardize our ability to secure coverage on reasonable terms, if at all.

Any securities or product liability/tissue processing claim, even a meritless or unsuccessful one, could be costly to defend, and result in diversion of our management's attention from our business, adverse publicity, withdrawal of clinical trial participants, injury to our reputation, or loss of revenue.

We are subject to various US and international bribery, anti-kickback, false claims, privacy, transparency, and similar laws, any breach of which could cause a material, adverse effect on our business, financial condition, and profitability.

Our relationships with physicians, hospitals, and other healthcare providers are subject to scrutiny under various US and international bribery, anti-kickback, false claims, privacy, transparency, and similar laws, often referred to collectively as "healthcare compliance laws." Healthcare compliance laws are broad, sometimes ambiguous, complex, and subject to change and changing interpretations. The ongoing war in Ukraine and the current and future sanctions imposed on Russia and others as a result may exacerbate these risks. See also Part I, Item 1A, "Risk Factors – Business and Economic Risks - We are subject to a variety of risks due to our international operations and continued global expansion." Possible sanctions for violation of these healthcare compliance laws include fines, civil and criminal penalties, exclusion from government healthcare programs, and despite our compliance efforts, we face the risk of an enforcement activity or a finding of a violation of these laws.

We have entered into consulting and product development agreements with healthcare professionals and healthcare organizations, including some who may order our products or make decisions to use them. We have also adopted the AdvaMed Code of Conduct, the MedTech Europe Code of Ethical Business Practice, and the APACMed Code of Ethical Conduct which govern our relationships with healthcare professionals to bolster our compliance with healthcare compliance laws. While our relationships with healthcare professionals and organizations are structured to comply with such laws and we conduct training sessions on these laws and Codes, it is possible that enforcement authorities may view our relationships as prohibited arrangements that must be restructured or for which we would be subject to other significant civil or criminal penalties or debarment. In any event, any enforcement review of or action against us as a result of such review, regardless of outcome, could be costly and time consuming. Additionally, we cannot predict the impact of any changes in or interpretations of these laws, whether these changes will be retroactive or will have effect on a going-forward basis only.

The proliferation of new and expanded data privacy laws, including the General Data Protection Regulation in the European Union, could adversely affect our business.

An increasing number of federal, state, and foreign data privacy laws and regulations, which can be enforced by private parties or governmental entities, have been or are being promulgated and are constantly evolving. These laws and regulations may include new requirements for companies that receive or process an individual's personal data (including employees), which increases our operating costs and requires significant management time and energy. Many of these laws and regulations, including the European Union's General Data Protection Regulation ("GDPR") also include significant penalties for noncompliance. Although our personal data practices, policies, and procedures are intended to comply with GDPR and other data privacy laws and regulations, there can be no assurance that regulatory or enforcement authorities will view our arrangements as being in compliance with applicable laws, or that one or more of our employees or agents will not disregard the rules we have established. Any privacy related government enforcement activities may be costly, result in negative publicity, or subject us to significant penalties.

$Some\ of\ our\ products\ and\ technologies\ are\ subject\ to\ significant\ intellectual\ property\ risks\ and\ uncertainty.$

We own trade secrets, patents, patent applications, and licenses relating to our technologies and trademarks and goodwill related to our products and services, which we believe provide us with important competitive advantages. We cannot be certain that we will be able to maintain our trade secrets, that our pending patent applications will issue as patents, or that no one will challenge the validity or enforceability of any intellectual property that we adopt, own, or license. Competitors may independently develop our proprietary technologies or design non-infringing alternatives to patented inventions. We do not control the maintenance, prosecution, enforcement, or strategy for in-licensed intellectual property and as such are dependent in part on the owners of these rights to maintain their viability. Their failure to do so could significantly impair our ability to exploit those technologies. Additionally, our technologies, products, or services could infringe intellectual property rights owned by others, or others could infringe our intellectual property rights.

If we become involved in intellectual property disputes, the costs could be expensive, and if we were to lose or decide to settle, the amounts or effects of the settlement or award by a tribunal could be costly.

Risks Relating to Our Indebtedness

The agreements governing our indebtedness contain restrictions that limit our flexibility in operating our business.

The agreements governing our indebtedness contain, and any instruments governing future indebtedness of ours may contain, covenants that impose significant operating and financial restrictions on us and certain of our subsidiaries, including (subject in each case to certain exceptions) restrictions or prohibitions on our and certain of our subsidiaries' ability to, among other things:

- Incur or guarantee additional debt or create liens on certain assets:
- Pay dividends on or make distributions of our share capital, including repurchasing or redeeming capital stock, or make other restricted payments, including restricted junior payments;
- Enter into agreements that restrict our subsidiaries' ability to pay dividends to us, repay debt owed to us or our subsidiaries, or make loans or advances to us or our other subsidiaries;
- Enter into certain transactions with our affiliates including any transaction or merger or consolidation, liquidation, winding-up, or dissolution; convey, sell, lease, exchange, transfer or otherwise dispose of all or any part of our business, assets or property; or sell, assign, or otherwise dispose of any capital stock of any subsidiary;
- Enter into certain rate swap transactions, basis swaps, credit derivative transactions, and other similar transactions, whether relating to interest rates, commodities, investments, securities, currencies, or any other relevant measure, or transactions of any kind subject to any form of master purchase agreement governed by the International Swaps and Derivatives Association, Inc., any International Foreign Exchange Master Agreement, or any other master agreement;
- Amend, supplement, waive, or otherwise modify our or our subsidiaries' organizational documents in a manner that would be materially adverse to
 the interests of the lenders, or change or amend the terms of documentation regarding junior financing in a manner that would be materially
 adverse to the interests of the lenders;
- Make changes to our and our subsidiaries' fiscal year without notice to the administrative agent;
- Enter into agreements which restrict our ability to incur liens;
- · Engage in any line of business substantially different from that in which we are currently engaged; and
- Make certain investments, including strategic acquisitions or joint ventures.

Our indebtedness could adversely affect our ability to raise additional capital to fund operations and limit our ability to react to changes in the economy or our industry.

Our current and future levels of indebtedness could adversely affect our ability to raise additional capital, limit our operational flexibility, and hinder our ability to react to changes in the economy or our industry. It may also limit our ability to borrow money, require us to dedicate substantial portions of our cash flow to repayment, and restrict our ability to invest in business opportunities. Because most of our borrowings are at a variable rate of interest, we are exposed to interest rate fluctuations.

We have pledged substantially all of our US assets as collateral under our existing Credit Agreement. If we default on the terms of such credit agreements and the holders of our indebtedness accelerate the repayment of such indebtedness, there can be no assurance that we will have sufficient assets to repay our indebtedness.

A failure to comply with the covenants in our existing Credit Agreement could result in an event of default, which, if not cured or waived, could have a material, adverse effect on our business, financial condition, and profitability. In the event of any such default, the holders of our indebtedness:

- Will not be required to lend any additional amounts to us; and
- Could elect to declare all indebtedness outstanding, together with accrued and unpaid interest and fees, to be due and payable and terminate all
 commitments to extend further credit, if applicable.

If we are unable to repay those amounts, the holders of our secured indebtedness could proceed against their secured collateral to seek repayment out of proceeds from the sale or liquidation of our assets. If our indebtedness were to be accelerated, there can be no assurance that our assets would be sufficient to repay such indebtedness in full.

Risks Related to Ownership of our Common Stock

Our business could be negatively impacted as a result of shareholder activism.

In recent years, shareholder activists have become involved in numerous public companies. Shareholder activists from time to time propose to involve themselves in the governance, strategic direction, and operations of a company. Such involvement may disrupt our business and divert the attention of our management, and any perceived uncertainties as to our future direction resulting from such involvement could result in the loss of business opportunities, be exploited by our competitors, cause concern for our current or potential customers, cause significant fluctuations in stock price, or make it more difficult to attract and retain qualified personnel and business partners.

Our business could be impacted by increased shareholder emphasis on environmental, social, and governance matters.

Investors and other key stakeholders are increasingly focusing on areas of corporate responsibility, and particularly matters related to environmental, social, and governance ("ESG") factors. Institutional investors have expressed expectations with respect to ESG matters that they use to guide their investment strategies and may, in some cases, choose not to invest in us if they believe our ESG policies are lagging or inadequate. Other stakeholders also have expectations regarding ESG factors, such as employees or potential employees who desire to work for a company that reflects their personal values. These areas of focus are continuing to evolve, as are the criteria that investors assess companies' performance in these areas. Investors are increasingly looking to companies that demonstrate strong ESG and sustainability practices as an indicator of long-term resilience, especially in light of events such as the COVID-19 pandemic. Keeping up with and meeting these expectations may disrupt our business and divert the attention of our management, and we may be unable to make the investments in ESG that our competitors with greater financial resources are able to make. Failure to meet the expectations of investors and other stakeholders in these areas may damage our reputation, impact employee retention, impact the willingness of our customers to do business with us, or otherwise impact our financial results and stock price.

We do not anticipate paying any dividends on our common stock for the foreseeable future.

In December 2015 our Board of Directors discontinued dividend payments on our common stock for the foreseeable future. If we do not pay cash dividends, our shareholders may receive a return on their investment in our common stock only through appreciation of shares of our common stock that they own. In addition, restrictions in our credit facility limit our ability to pay future dividends.

Provisions of Delaware law and anti-takeover provisions in our organizational documents may discourage or prevent a change of control, even if an acquisition would be beneficial to shareholders, which could affect our share price adversely and prevent attempts by shareholders to remove current management.

Effective January 1, 2022 we reincorporated in Delaware. Our status as a Delaware corporation and the anti-takeover provisions of the Delaware General Corporation Law may discourage, delay, or prevent a change in control by prohibiting us from engaging in a business combination with an interested stockholder for a period of three years after the person becomes an interested stockholder, even if a change of control would be beneficial to our existing stockholders. In addition, the organizational documents adopted in connection with our reincorporation contain provisions that restrict persons who may call shareholder meetings, allow the issuance of blank-check preferred stock without the vote of shareholders, and allow the Board of Directors to fill vacancies and fix the number of directors. These provisions of Delaware law and our articles of incorporation and bylaws could prevent attempts by shareholders to remove current management, prohibit or delay mergers or other changes of control transactions, and discourage attempts by other companies to acquire us, even if such a transaction would be beneficial to our shareholders. The effects of reincorporation in Delaware are detailed in our 2021 Special Proxy Statement and Notice of Special Meeting filed with the SEC on October 7, 2021.

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

(c) The following table provides information about purchases by us during the three months ended September 30, 2022 of equity securities that are registered by us pursuant to Section 12 of the Securities Exchange Act of 1934:

Period	Total Number of Common Shares and Common Stock Units Purchased	Average Price Paid per Common Share	Total Number of Common Shares Purchased as Part of Publicly Announced Plans or Programs	Dollar Value of Common Shares That May Yet Be Purchased Under the Plans or Programs
07/01/22 - 07/31/22		\$ _	_	\$ —
08/01/22 - 08/31/22	1,706	21.71	_	_
09/01/22 - 09/30/22	709	21.10	_	_
Total	2,415	\$ 21.53		<u> </u>

The common shares purchased during the three months ended September 30, 2022 were tendered to us in payment of taxes on stock compensation and were not part of a publicly announced plan or program.

Under our Credit Agreement, we are prohibited from repurchasing our common stock, except for the repurchase of stock from our employees or directors when tendered in payment of taxes or the exercise price of stock options, upon the satisfaction of certain requirements.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item 6. Exhibits.

The exhibit index can be found below.

Exhibit

Number	Description
3.1	Delaware Certificate of Incorporation, effective January 1, 2022. (Incorporated herein by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed January 4, 2022).
3.2	Delaware Certificate of Amendment of Certificate of Incorporation, effective January 18, 2022. (Incorporated herein by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed January 20, 2022).
3.3	Amended and Restated Bylaws of Artivion, Inc., a Delaware Corporation (Incorporated herein by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed January 20, 2022).
10.1*	Form of Indemnification Agreement for Non-Employee Directors and Executive Officers.
10.2*	Change of Control Agreement, by and between the Company and John E. Davis, dated Aug. 2, 2022.
10.3*	Change of Control Agreement, by and between the Company and Jean F. Holloway, dated Aug. 2, 2022.
10.4*	Change of Control Agreement, by and between the Company and D. Ashley Lee, dated Aug. 2, 2022.
<u>31.1</u> *	Certification by J. Patrick Mackin pursuant to section 302 of the Sarbanes-Oxley Act of 2002.
<u>31.2</u> *	Certification by D. Ashley Lee pursuant to section 302 of the Sarbanes-Oxley Act of 2002.
<u>32</u> **	Certification Pursuant To 18 USC. Section 1350, As Adopted Pursuant To Section 906 Of The Sarbanes-Oxley Act Of 2002.
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File – formatted as Inline XBRL and contained in Exhibit 101

^{*} Filed herewith.

^{**} Furnished herewith.

SIGNATURES

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

	ARTIVION, INC. (Registrant)
/s/ J. PATRICK MACKIN	/s/ D. ASHLEY LEE
J. PATRICK MACKIN	D. ASHLEY LEE
Chairman, President, and Chief Executive Officer (Principal Executive Officer)	Executive Vice President, and Chief Financial Officer (Principal Financial and Accounting Officer)
November 4, 2022	
DATE	

INDEMNIFICATION AGREEMENT

THIS INDEMNIFICATION AGREEMENT (this "A	greement") is made and entered into as of August 2, 2022, bet	ween ARTIVION
INC., a Delaware corporation (the "Corporation"), and	, a resident of the State of	(the
"Indemnitee").		

WITNESSETH

WHEREAS, at the request of the Corporation, Indemnitee is an executive officer and/or a member of the board of directors of the Corporation (the "Board of Directors") and in such capacity is performing a valuable service for the Corporation;

WHEREAS, both the Corporation and Indemnitee recognize the increased risk of litigation and other claims being asserted against directors and officers of public companies;

WHEREAS, in addition to the indemnification to which Indemnitee is entitled pursuant to the Certificate of Incorporation and Bylaws of the Corporation (as amended, the "Governing Documents") and as additional consideration for Indemnitee's service, the Corporation has obtained or may in the future obtain, at its expense, directors' and officers' liability insurance protecting Indemnitee in connection with such service; and

WHEREAS, Indemnitee and the Corporation acknowledge that the indemnities available under the Governing Documents and such insurance may not, in all situations, be adequate to protect Indemnitee against the risks associated with service to the Corporation.

NOW, THEREFORE, in consideration of the premises and the covenants in this Agreement, the parties hereto, intending to be legally bound hereby, agree as follows:

1. **Indemnification**.

- (a) Subject to Sections 3 and 5 of this Agreement, the Corporation shall indemnify Indemnitee to the fullest extent permitted by the Delaware General Corporation Law and any other applicable law. This obligation includes the obligation to indemnify Indemnitee whenever Indemnitee is or was a party or witness or is threatened to be made a party or witness to any Proceeding (capitalized terms not otherwise defined are defined in Section 13) because (or arising in part because) Indemnitee is or was (or is alleged to be or have been) a director, officer, employee, partner, fiduciary or agent of the Corporation or is or was (or is alleged to be or have been) serving at the request of the Corporation as a director, officer, employee, partner, fiduciary or agent of another corporation, partnership, joint venture, limited liability company, limited liability partnership, limited partnership, employee benefit plan, trust or other enterprise, or because of anything done or not done by Indemnitee in such capacity (any such event or occurrence, an "Indemnifiable Event"), against Expenses and Liabilities as defined below (including the costs of any investigation, defense, service as a witness, settlement or appeal), actually and reasonably incurred by Indemnitee or on Indemnitee's behalf in connection with such Proceeding. The foregoing indemnification, including the conditions thereto, shall also apply to any such Proceeding brought by or in the right of the Corporation.
- (b) To the extent that Indemnitee has been successful on the merits or otherwise in defense of any Proceeding, including dismissal without prejudice, Indemnitee shall be indemnified against Expenses and Liabilities actually and reasonably incurred by Indemnitee in connection therewith.
- (c) If the indemnification provided for in Section 1(a) above for any reason is held by a court of competent jurisdiction to be unavailable to Indemnitee in respect of any losses, claims, damages, expenses or liabilities referred to therein due to public policy related to applicable federal or state securities laws, then the Corporation, in lieu of indemnifying Indemnitee thereunder, shall contribute to the amount paid or payable by Indemnitee as a result of such losses, claims, damages, expenses or liabilities (i) in such proportion as is appropriate to reflect the relative benefits received by the Corporation and Indemnitee, or (ii) if the allocation provided by clause (i) above is not permitted by applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in

clause (i) above but also the relative fault of the Corporation and Indemnitee in connection with the action or inaction which resulted in such losses, claims, damages, expenses or liabilities, as well as any other relevant equitable considerations. In connection with the registration of the Corporation's securities, the relative benefits received by the Corporation and Indemnitee shall be deemed to be in the same respective proportions that the net proceeds from the offering (before deducting expenses) received by the Corporation and Indemnitee, in each case as set forth in the table on the cover page of the applicable prospectus, bear to the aggregate public offering price of the securities so offered. The relative fault of the Corporation and Indemnitee shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Corporation or Indemnitee and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.

The Corporation and Indemnitee agree that it would not be just and equitable if contribution pursuant to this Section 1(c) were determined by pro rata or per capita allocation or by any other method of allocation which does not take account of the equitable considerations referred to in the immediately preceding paragraph. In connection with the registration of the Corporation's securities, in no event shall Indemnitee be required to contribute any amount under this Section 1(c) in excess of the *lesser of* (i) that proportion of the total of such losses, claims, damages or liabilities indemnified against equal to the proportion of the total securities sold under such registration statement which was sold by Indemnitee or (ii) the proceeds received by Indemnitee from sale of securities under such registration statement. No person found guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any person who was not found guilty of such fraudulent misrepresentation.

2. Mandatory Advancement of Expenses.

(d) General. Unless a determination has been made pursuant to Section 5 (and remains in effect) that Indemnitee is not entitled to indemnification pursuant to Section 1, all reasonable Expenses incurred by or on behalf of Indemnitee shall be advanced from time to time by the Corporation to Indemnitee within twenty (20) days after the Corporation's receipt of a written request for an advance of Expenses by Indemnitee, whether prior to or after final disposition of a Proceeding. For the sake of clarity, the Corporation shall not be obligated to make an affirmative determination under Section 5 in order to advance expenses prior to final disposition of a Proceeding. Furthermore, any Section 5 determination that Indemnitee is not entitled to advancement of expenses, if made prior to the final disposition of the relevant Proceeding, must be reasonable and must be based on facts that, in the reasonable opinion of the decision-making party, at the time such determination is made, demonstrate by clear and convincing evidence, sufficient to overcome the presumption of entitlement set forth in Section 5, that Indemnitee did not meet the applicable standard of conduct under Delaware law.

The written request for an advancement of any and all Expenses under this Section shall contain reasonable detail of the Expenses incurred by Indemnitee, provided that Indemnitee shall not be required to provide any documentation or information to the extent that the provision thereof would undermine or otherwise jeopardize attorney-client privilege. Indemnitee shall agree, at the time of such written request for an advance, to repay the amounts advanced if it is ultimately determined that Indemnitee is not entitled to be indemnified pursuant to the terms of this Agreement. Any advances made shall be unsecured and no interest shall be charged thereon.

(e) Indemnification for Expenses in Enforcing Rights. To the fullest extent allowable under applicable law, the Corporation shall also indemnify against, and, if requested by Indemnitee, shall advance to Indemnitee subject to and in accordance with the terms of Section 2(a), any Expenses actually and reasonably paid or incurred by Indemnitee in connection with any action or proceeding by Indemnitee for (a) indemnification or reimbursement or advance payment of Expenses by the Corporation under any provision of this Agreement, or under any other agreement or provision of the Governing Documents now or hereafter in effect relating to Proceedings regarding Indemnifiable Events, and/or (b) recovery under any directors' and officers' liability insurance policies maintained by the Corporation, regardless of whether Indemnitee ultimately is determined to be entitled to such indemnification or insurance recovery, as the case may be, then all amounts advanced under this Section 2(b) shall be repaid. Indemnitee shall be required to reimburse the Corporation in the event that a

final judicial determination is made that such action brought by Indemnitee was frivolous or not made in good faith.

3. <u>Limitations</u>. The foregoing indemnity and advancement of Expenses shall apply only to the extent that Indemnitee has not been indemnified and reimbursed pursuant to such insurance as the Corporation may maintain for Indemnitee's benefit or pursuant to the Governing Documents or otherwise; provided, however, that notwithstanding the availability of such other indemnification and reimbursement pursuant to such Corporation-maintained policies, Indemnitee may, with the Corporation's consent, claim indemnification and advancement of Expenses pursuant to this Agreement by assigning Indemnitee's claims under such insurance to the Corporation to the extent Indemnitee is paid by the Corporation.

Furthermore, any other provision herein to the contrary notwithstanding, the Corporation shall not be obligated pursuant to the terms of this Agreement to (a) indemnify or advance Expenses to Indemnitee with respect to any Proceeding initiated or brought voluntarily by such Indemnitee and not by way of defense, except (i) with respect to actions or proceedings to establish or enforce a right to indemnity under this Agreement or any other agreement or insurance policy or under the Governing Documents now or hereafter in effect relating to a Proceeding and (ii) in specific cases in which the Board of Directors has approved the initiation or bringing of such Proceeding, (b) indemnify Indemnitee for expenses and/or the payment of profits with respect to any short swing profit liability owed to the Corporation by Indemnitee pursuant to Section 16(b) of the Securities Exchange Act of 1934, as amended, or any similar successor statute, and the regulations promulgated thereunder, or (c) indemnify Indemnitee with respect to any proceeding instituted by Indemnitee to enforce or interpret this Agreement, if a court of competent jurisdiction determines that each of the material assertions made by the Indemnitee in such proceeding was not made in good faith or was frivolous.

4. **Insurance**. The Corporation may, but is not obligated to, maintain insurance to protect itself and/or Indemnitee against Expenses and Liabilities in connection with Proceedings to the fullest extent permitted by applicable laws or its Governing Documents. The Corporation may, but is not obligated to, create a trust fund, grant a security interest or use other means (including, without limitation, a letter of credit) to ensure the payment of such amounts as may be necessary to effect indemnification or advancement of Expenses as provided in this Agreement. If, at the time of the receipt by the Corporation of a notice of a claim by Indemnitee pursuant to Section 5 hereof (or upon the Corporation otherwise becoming aware of such a claim), the Corporation has liability insurance in effect which may cover such claim, then the Corporation shall give timely notice of the commencement of such claim to the insurers in accordance with the procedures set forth in the respective policies. The Corporation shall thereafter take all necessary or desirable action to cause such insurers to pay, on behalf of Indemnitee, all amounts payable as a result of such action, suit, proceeding, inquiry or investigation in accordance with the terms of such policies.

5. <u>Procedures and Presumptions for Determination of Entitlement to Indemnification.</u>

- (f) Mandatory Indemnification; Indemnification as a Witness.
- (i) To the extent that Indemnitee shall have been successful on the merits or otherwise in defense of any Proceeding relating to an Indemnifiable Event or any portion thereof or in defense of any issue or matter therein, including without limitation dismissal without prejudice, Indemnitee shall be indemnified against all Liabilities relating to such Proceeding in accordance with Section 1 to the fullest extent allowable by law, and no Standard of Conduct Determination (as defined in Section 5(b)) shall be required.
- (ii) To the extent that Indemnitee's involvement in a Proceeding relating to an Indemnifiable Event is to prepare to serve and serve as a witness, and not as a party, the Indemnitee shall be indemnified against all Liabilities and Expenses incurred in connection therewith to the fullest extent allowable by law and no Standard of Conduct Determination shall be required.
- (g) Standard of Conduct. To the extent that the provisions of Section 5(a) are inapplicable to a Proceeding related to an Indemnifiable Event that shall have been finally disposed of, any determination of whether Indemnitee has satisfied any applicable standard of conduct under Delaware

law that is a legally required condition to indemnification of Indemnitee hereunder against Liabilities relating to such Proceeding and any determination that an advancement of Expenses must be repaid to the Corporation (a "Standard of Conduct Determination") shall be made as follows:

- (i) if no Change in Control has occurred, (A) by a majority vote of the Disinterested Directors, even if less than a quorum of the Board of Directors, (B) by a committee of Disinterested Directors designated by a majority vote of the Disinterested Directors, even though less than a quorum or (C) if there are no such Disinterested Directors, by Independent Counsel in a written opinion addressed to the Board of Directors, a copy of which shall be delivered to Indemnitee; and
- (ii) if a Change in Control shall have occurred, (A) if the Indemnitee so requests in writing, by a majority vote of the Disinterested Directors, even if less than a quorum of the Board of Directors, or (B) otherwise, by Independent Counsel in a written opinion addressed to the Board of Directors, a copy of which shall be delivered to Indemnitee.

The Corporation shall indemnify and hold harmless Indemnitee against and, if requested by Indemnitee, shall reimburse Indemnitee for, or advance to Indemnitee, within fifteen (15) days of such request, any and all Expenses incurred by Indemnitee in cooperating with the person or persons making such Standard of Conduct Determination.

- (h) Making the Standard of Conduct Determination. The Corporation shall use its reasonable best efforts to cause any Standard of Conduct Determination required under Section 5(b) to be made as promptly as practicable. If the person or persons designated to make the Standard of Conduct Determination under Section 5(b) shall not have made a determination within thirty (30) days after the later of (A) receipt by the Corporation of a written request from Indemnitee for indemnification pursuant to Section 1 (the date of such receipt being the "Notification Date") and (B) the selection of an Independent Counsel, if such determination is to be made by Independent Counsel, then Indemnitee shall be deemed to have satisfied the applicable standard of conduct; provided that such 30-day period may be extended for a reasonable time, not to exceed an additional thirty (30) days, if the person or persons making such determination in good faith requires such additional time to obtain or evaluate information relating thereto. Notwithstanding anything in this Agreement to the contrary, no determination as to entitlement of Indemnitee to indemnification under this Agreement shall be required to be made prior to the final disposition of any Proceeding.
 - (i) Payment of Indemnification. If, in regard to any Liabilities:
 - (iii) Indemnitee shall be entitled to indemnification pursuant to Section 5(a),
 - (iv) No Standard of Conduct Determination is legally required as a condition to indemnification of Indemnitee

hereunder, or

- (v) Indemnitee has been determined or deemed pursuance to Section 5(b) or 5(c) to have satisfied the Standard of Conduct Determination,
- then the Corporation shall pay to Indemnitee, within fifteen (15) days after the later of (A) the Notification Date or (B) the earliest date on which the applicable criterion specified in clause (i), (ii) or (iii) is satisfied, an amount equal to such Liabilities.
- (j) Selection of Independent Counsel for Standard of Conduct Determination. If a Standard of Conduct Determination is to be made by Independent Counsel pursuant to Section 5(b)(i), the Independent Counsel shall be selected by the Board of Directors, and the Corporation shall give written notice to Indemnitee advising Indemnitee of the identity of the Independent Counsel so selected. If a Standard of Conduct Determination is to be made by Independent Counsel pursuant to Section 5(b)(ii), the Independent Counsel shall be selected by Indemnitee, and Indemnitee shall give written notice to the Corporation advising it of the identity of the Independent Counsel so selected. In either case, Indemnitee or the Corporation, as applicable, may, within five (5) days after receiving written notice of selection from the other, deliver to the other a written objection to such selection; provided, however, that such objection may be asserted only on the ground that the Independent Counsel so selected does not satisfy the criteria set forth in the definition of "Independent Counsel" in Section 13(f), and the objection shall

set forth with particularity the factual basis of such assertion. Absent a proper and timely objection, the person or firm so selected shall act as Independent Counsel. If such written objection is properly and timely made and substantiated, (i) the Independent Counsel so selected may not serve as Independent Counsel unless and until such objection is withdrawn or a court has determined that such objection is without merit; and (ii) the non-objecting party may, at its option, select an alternative Independent Counsel and give written notice to the other party advising such other party of the identity of the alternative Independent Counsel and give written notice to the other party advising such other party of the identity of the alternative Independent Counsel so selected, in which case the provisions of the two subsequent selection and notice. If applicable, the provisions of clause (ii) of the immediately preceding sentence shall apply to such subsequent selections. If no Independent Counsel that is permitted under the foregoing provisions of this Section 5(e) to make the Standard of Conduct Determination shall have been selected within twenty (20) days after the Corporation gives its initial notice pursuant to the first sentence of this Section 5(e) or Indemnitee gives its initial notice pursuant to the second sentence of this Section 5(e), as the case may be, either the Corporation or Indemnitee may petition the Court of Chancery of the State of Delaware (the "Delaware Court") to resolve any objection which shall have been made by the Corporation or Indemnitee of the other's selection of Independent Counsel and/or to appoint as Independent Counsel a person to be selected by the Court or such other person as the Court shall designate, and the person or firm with respect to whom all objections are so resolved or the person or firm so appointed will act as Independent Counsel. In all events, the Corporation shall pay all of the reasonable fees and expenses of the Independent Counsel incurred in connection with

(k) Presumptions and Defenses.

- (iii) <u>Indemnitee's Entitlement to Indemnification</u>. In making any Standard of Conduct Determination, the person or persons making such determination shall presume that Indemnitee has satisfied the applicable standard of conduct and is entitled to indemnification, and the Corporation shall have the burden of proof to overcome that presumption and establish that Indemnitee is not so entitled. Any Standard of Conduct Determination that is adverse to Indemnitee may be challenged by the Indemnitee in the Delaware Court. No determination by the Corporation (including by its directors or any Independent Counsel) that Indemnitee has not satisfied any applicable standard of conduct may be used as a defense to any legal proceedings brought by Indemnitee to secure indemnification or reimbursement or advance payment of Expenses by the Corporation hereunder or create a presumption that Indemnitee has not met any applicable standard of conduct.
- (iv) Reliance as a Safe Harbor. For purposes of this Agreement, and without creating any presumption as to a lack of good faith if the following circumstances do not exist, Indemnitee shall be deemed to have acted in good faith and in a manner Indemnitee reasonably believed to be in or not opposed to the best interests of the Corporation if Indemnitee's actions or omissions to act are taken in good faith reliance upon the records of the Corporation, including its financial statements, or upon information, opinions, reports or statements furnished to Indemnitee by the officers or employees of the Corporation or any of its subsidiaries in the course of their duties, or by committees of the Board of Directors or by any other Person (including legal counsel, accountants and financial advisors) as to matters Indemnitee reasonably believes are within such other Person's professional or expert competence and who has been selected with reasonable care by or on behalf of the Corporation. In addition, the knowledge and/or actions, or failures to act, of any other director, officer, agent or employee of the Corporation shall not be imputed to Indemnitee for purposes of determining the right to indemnity hereunder.
- (v) No Other Presumptions. For purposes of this Agreement, the termination of any Proceeding by judgment, order, settlement (whether with or without court approval) or conviction, or upon a plea of nolo contendere or its equivalent, will not create a presumption that Indemnitee did not meet any applicable standard of conduct or have any particular belief, or that indemnification hereunder is otherwise not permitted.
- (vi) <u>Defense to Indemnification and Burden of Proof.</u> It shall be a defense to any action brought by Indemnitee against the Corporation to enforce this Agreement (other than an action brought to enforce a claim for Liabilities incurred in defending against a Proceeding related to an Indemnifiable Event in advance of its final disposition) that it is not permissible under applicable law for

the Corporation to indemnify Indemnitee for the amount claimed. In connection with any such action or any related Standard of Conduct Determination, the burden of proving such a defense or that the Indemnitee did not satisfy the applicable standard of conduct shall be on the Corporation.

6. **Fees and Expenses of Counsel**. The Corporation agrees to pay the reasonable fees and expenses of independent legal counsel (including appropriate retainers) should such counsel be retained to make a determination of Indemnitee's entitlement to indemnification pursuant to Section 5 of this Agreement.

7. Remedies of Indemnitee.

- (a) In the event that (i) a determination pursuant to Section 5 hereof is made that Indemnitee is not entitled to indemnification, (ii) advances of Expenses are not made pursuant to this Agreement for any reason, (iii) payment has not been timely made following a determination of entitlement to indemnification pursuant to this Agreement, or (iv) Indemnitee otherwise seeks enforcement of this Agreement, Indemnitee shall be entitled to a final adjudication of Indemnitee's rights in an appropriate court. The Corporation shall not oppose Indemnitee's right to seek any such adjudication.
- (b) In the event that a determination that Indemnitee is not entitled to indemnification, in whole or in part, has been made pursuant to Section 5 hereof, the decision in the judicial proceeding provided in paragraph (a) of this Section 7 shall be made de novo and Indemnitee shall not be prejudiced by reason of a determination that Indemnitee is not entitled to indemnification.
- (c) If a determination that Indemnitee is entitled to indemnification has been made pursuant to Section 5 hereof or otherwise pursuant to the terms of this Agreement, the Corporation shall be bound by such determination in the absence of (i) misrepresentation of a material fact by Indemnitee or (ii) a specific finding (which has become final) by an appropriate court that all or any part of such indemnification is expressly prohibited by law.
- (d) In any court proceeding pursuant to this Section 7, the Corporation shall be precluded from asserting that the procedures and presumptions of this Agreement are not valid, binding and enforceable. The Corporation shall stipulate in any such court that the Corporation is bound by all the provisions of this Agreement (including the rebuttable presumptions specified in Section 5(f)(i)) and is precluded from making any assertion to the contrary.
- 8. <u>Modification. Waiver, Termination and Cancellation</u>. No supplement, modification, termination, cancellation or amendment of this Agreement shall be binding unless executed in writing by both of the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provisions hereof (whether or not similar), nor shall any such waiver constitute a continuing waiver.
- 9. Notice by Indemnitee and Defense of Claim. Indemnitee shall promptly notify the Corporation in writing upon being served with any summons, citation, subpoena, complaint, indictment, information or other document relating to any matter, whether civil, criminal, administrative or investigative, but the omission to so notify the Corporation will not relieve it from any liability which it may have to Indemnitee if such omission does not prejudice the Corporation's rights. If such omission does prejudice the Corporation's rights, the Corporation will be relieved from liability only to the extent of such prejudice. With respect to any Proceeding as to which Indemnitee notifies the Corporation of the commencement thereof:
 - (a) The Corporation will be entitled to participate therein at its own expense; and
- (b) The Corporation jointly with any other indemnifying party similarly notified will be entitled to assume the defense thereof, with counsel reasonably satisfactory to Indemnitee; provided, however, that the Corporation shall not be entitled to assume the defense of any Proceeding if Indemnitee shall have reasonably concluded that there may be a conflict of interest between the Corporation and Indemnitee with respect to such Proceeding. After notice from the Corporation to Indemnitee of its election to assume the defense thereof, the Corporation will not be liable to Indemnitee under this

Agreement for any Expenses subsequently incurred by Indemnitee in connection with the defense thereof, other than reasonable costs of investigation or as otherwise provided below. Indemnitee shall have the right to employ Indemnitee's own counsel in such Proceeding but the fees and expenses of such counsel incurred after notice from the Corporation of its assumption of the defense thereof shall be at the expense of Indemnitee unless:

- (i) The employment of counsel by Indemnitee has been authorized in writing by the Corporation;
- (ii) Indemnitee shall have reasonably concluded that counsel engaged by the Corporation may not adequately represent Indemnitee; or
- (iii) The Corporation shall not in fact have employed counsel to assume the defense in such Proceeding or shall not in fact have assumed such defense and be acting in connection therewith with reasonable diligence;

in each of which cases the fees and expenses of such counsel shall be at the expense of the Corporation.

- (a) The Corporation shall not settle any Proceeding in any manner which would impose any penalty or limitation on Indemnitee, other than monetary penalties paid by the Corporation, without Indemnitee's written consent; provided, however, that Indemnitee will not unreasonably withhold Indemnitee's consent to any such proposed settlement. In addition, the Corporation shall not enter into any settlement of any Proceeding unless such settlement provides for a full and final release of all claims asserted against Indemnitee.
- 10. **Deposit of Funds in Trust**. If the Corporation voluntarily decides to dissolve or to file a petition for relief under any applicable bankruptcy, moratorium or similar laws, then not later than 10 days prior to such dissolution or filing, the Corporation shall deposit in trust for the sole and exclusive benefit of Indemnitee a cash amount equal to all amounts previously authorized to be paid to Indemnitee hereunder, such amounts to be used to discharge the Corporation's obligations to Indemnitee hereunder. Any amounts in such trust not required for such purpose shall be returned to the Corporation. This Section 10 shall not apply to the dissolution of the Corporation in connection with a transaction as to which Section 13(b)(iii) applies.
- 11. **Notices.** All notices, requests, consents and other communications hereunder shall be in writing and shall be sent by Federal Express or other nationally recognized overnight or same day courier service providing a return receipt (and shall be effective when received, when refused or when the same cannot be delivered, as evidenced on the return receipt) to the following addresses (or to such other address as a party may subsequently provide written notification of to the other party):

To Corporation: Artivion, Inc.

1655 Roberts Blvd., NW Kennesaw, GA 30144 Attn: General Counsel

To Indemnitee:

1655 Roberts Blvd., NW Kennesaw, GA 30144

12. <u>Nonexclusivity</u>. The rights of Indemnitee hereunder shall not be deemed exclusive of any other rights to which Indemnitee may now or in the future be entitled under the Delaware General Corporation Law, the Governing Documents, or any agreements, insurance policies, vote of stockholders, resolution of the Board of Directors or Disinterested Directors, or otherwise. The provisions of this Agreement are hereby deemed to be a contract right between the Corporation and the Indemnitee and any

repeal of the relevant provisions of the Delaware General Corporation Law, or other applicable law, shall not affect this Agreement or its enforceability.

13. <u>Certain Definitions</u>.

(c) References to the "<u>Corporation</u>" shall include, in addition to the resulting corporation, any constituent corporation or other enterprise (including any constituent of a constituent or other enterprise) absorbed in a consolidation or merger which, if its separate existence had continued, would have had power and authority to indemnify its directors, officers, and employees, partners, fiduciaries or agents, so that any person who is or was a director, officer, employee, partner, fiduciary or agent of such constituent corporation or other enterprise, or is or was serving at the request of such constituent corporation or other enterprise as a director, officer, employee, partner, fiduciary or agent of another corporation, partnership, joint venture, limited liability company, limited liability partnership, limited partnership, employee benefit plan, trust or other enterprise, shall stand in the same position under this Agreement with respect to the resulting or surviving corporation as Indemnitee would have with respect to such constituent corporation or other enterprise if its separate existence had continued.

(d) A "Change in Control" shall be deemed to have occurred if

- (i) any "Person" (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended), other than a trustee or other fiduciary holding securities under an employee benefit plan of the Corporation or a corporation owned directly or indirectly by the stockholders of the Corporation in substantially the same proportions as their ownership of stock of the Corporation,
- (A) who is or becomes the beneficial owner, directly or indirectly, of securities of the Corporation representing 20% or more of the combined voting power of the Corporation's then outstanding voting securities, increases his beneficial ownership of such securities by 5% or more over the percentage so owned by such person, or
- (B) becomes the "beneficial owner" (as defined in rule 13d-3 under said Act), directly or indirectly, of securities of the Corporation representing more than 30% of the total voting power represented by the Corporation's then outstanding voting securities,
- (ii) during any period of two consecutive years, individuals who at the beginning of such period constitute the Board of Directors of the Corporation and any new director whose election by the Board of Directors or nomination for election by the Corporation's stockholders was approved by a vote of at least two-thirds of the directors then still in office who either were directors at the beginning of the period or whose election or nomination for election was previously so approved, cease for any reason to constitute a majority thereof, or
- (iii) the stockholders of the Corporation approve a merger or consolidation of the Corporation with any other corporation, other than a merger or consolidation which would result in the voting securities of the Corporation outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity) at least 80% of the total voting power represented by the voting securities of the Corporation or such surviving entity outstanding immediately after such merger or consolidation, or the stockholders of the Corporation approve a plan of complete liquidation of the Corporation or an agreement for the sale or disposition by the Corporation of (in one transaction or a series of transactions) all or substantially all of the Corporation's assets.
- (e) "<u>Disinterested Director</u>" shall mean a director of the Corporation who is not and was not a party to the Proceeding in respect of which indemnification is being sought by Indemnitee. If there has been a Change in Control since the date hereof, to qualify as a Disinterested Director, such director must also have been a director of the Corporation prior to such Change in Control.
- (f) "Expenses" shall mean all direct and indirect costs (including, without limitation, attorneys' fees, retainers, court costs, transcripts, costs of investigation, costs of defense, costs of defending witnesses or preparing to be a witness, costs of negotiating settlements, fees of experts, witness fees, travel expenses, duplicating costs, printing and binding costs, telephone charges, postage, delivery

service fees, costs of attachment, appeal or similar bonds, and all other disbursements or out-of-pocket expenses) actually and reasonably incurred in connection with a Proceeding or establishing or enforcing a right to indemnification or advances under this Agreement, applicable law or otherwise; provided, however, that "Expenses" shall not include any Liabilities.

- (g) "Indemnification Period" shall mean the period of time during which Indemnitee shall continue to serve as a director or executive officer of the Corporation, and thereafter so long as Indemnitee shall be subject to any possible Proceeding arising out of acts or omissions of Indemnitee as a director or executive officer, which may include serving as a fiduciary or agent of the Corporation or otherwise acting or omitting at the request of or on behalf of the Corporation. For non-directors, status as an executive officer is required for this Agreement to provide indemnification related to a person's actions or omissions. Should a non-director Indemnitee cease to be an executive officer, his or her actions and omissions, performed as a non-officer employee, are not entitled to indemnification under this Agreement. Furthermore, only those executive officers who hold a validly executed Indemnification Agreement are entitled to the rights and privileges herein.
- (h) "<u>Independent Counsel</u>" means a law firm, or a member of a law firm, that is experienced in matters of corporation law and neither presently performs, nor in the past five (5) years has performed, services for either: (i) the Corporation (including any affiliate of the Corporation) or Indemnitee (other than in connection with matters concerning Indemnitee under this Agreement or of other indemnitees under similar agreements) or (ii) any other party to the Proceeding giving rise to a claim for indemnification hereunder. Notwithstanding the foregoing, the term "Independent Counsel" shall not include any person who, under the applicable standards of professional conduct then prevailing, would have a conflict of interest in representing either the Corporation or Indemnitee in an action to determine Indemnitee's rights under this Agreement.
- (i) "<u>Liabilities</u>" shall mean liabilities of any type whatsoever including, but not limited to, any damages, judgments, fines, ERISA excise taxes and penalties, penalties and amounts paid in settlement (including all interest assessments and other charges paid or payable in connection with or in respect of such judgments, fines, penalties or amounts paid in settlement) related to any Proceeding, as well as any federal, state, local or foreign taxes imposed on Indemnitee as a result of the actual or deemed receipt of any payments under this Agreement.
- (j) "Person" shall mean any individual, corporation, firm, partnership, joint venture, limited liability company, estate, trust, business association, organization, governmental entity or other entity.
- (k) "Proceeding" shall mean any threatened, asserted, pending or completed action, claim, suit, arbitration, alternate dispute resolution mechanism, investigation, administrative hearing or any other proceeding whether civil, criminal, administrative or investigative, including any appeal therefrom.
- (l) For purposes of this Agreement, references to an "other enterprise" shall include employee benefit plans; references to "fines" shall include any excise taxes assessed on a person with respect to any employee benefit plan; and references to "serving at the request of the corporation" shall include any service as a director, officer, employee, partner, fiduciary or agent of the corporation which imposes duties on, or involves services by, such director, officer, employee, partner, fiduciary or agent with respect to an employee benefit plan, its participants or beneficiaries; and a person who acted in good faith and in a manner Indemnitee reasonably believed to be in the interest of the participants and beneficiaries of an employee benefit plan shall be deemed to have acted in a manner "not opposed to the best interests of the Corporation" as referred to in this Agreement.
- Binding Effect, Duration and Scope of Agreement. This Agreement shall be binding upon and inure to the benefit of and be enforceable by the parties hereto and their respective successors and assigns (including the executors, administrators and heirs of Indemnitee's estate (including without limitation, spouses), and any direct or indirect successor by purchase, merger, consolidation or otherwise, to all or substantially all of the business or assets of the Corporation), heirs, and personal and legal representatives. This Agreement shall continue in effect during the Indemnification Period, regardless of whether Indemnitee continues to serve as a director, officer, employee, fiduciary or agent.

- 15. **Severability**. If any provision or provisions of this Agreement (or any portion thereof) shall be held to be invalid, illegal or unenforceable for any reason whatsoever:
- (b) the validity, legality and enforceability of the remaining provisions of this Agreement shall not in any way be affected or impaired thereby; and
- (c) to the fullest extent legally possible, the provisions of this Agreement shall be construed so as to give effect to the intent of any provision held invalid, illegal or unenforceable.
- 6. Governing Law, Interpretation of Agreement, and Jurisdiction. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Delaware (without regard to its conflict of laws rules, other than the internal affairs doctrine). It is the intent of this agreement to indemnify Indemnitee to the fullest extent permitted by the Delaware General Corporation Law and other applicable law as in effect on the date hereof or as they may be amended from time to time, to the extent such amendments may broaden the scope of indemnification permitted. For the sake of clarity, no change in the Delaware General Corporation Law shall have the effect of reducing the benefits available to Indemnitee except to the extent expressly so required by law. However, if the Governing Documents or the Delaware General Corporation Law are amended to provide for greater indemnification rights or privileges, this Agreement shall not be construed so as to limit Indemnitee's rights and privileges to the terms hereof and Indemnitee shall be entitled to the full benefits of any such additional rights and privileges. The Corporation and Indemnitee each hereby irrevocably consent to the jurisdiction of the courts of the State of Georgia for all purposes in connection with any action or proceeding which arises out of or relates to this Agreement and agree that any action instituted under this Agreement shall be commenced, prosecuted and continued only in the federal and state courts of the State of Georgia in and for Fulton County, which shall be the exclusive and only proper forum for adjudicating such a claim.
- 17. **Entire Agreement**. This Agreement represents the entire agreement between the parties hereto, and there are no other agreements, contracts or understandings between the parties hereto with respect to the subject matter of this Agreement, except as specifically referred to herein or as provided in Section 12 hereof. In furtherance and not in limitation of the foregoing, and notwithstanding the provisions of Section 12 hereof, the indemnification agreement between the Corporation and the Indemnitee dated ______ is hereby terminated in its entirety, shall have no further force and effect, and is superseded by this Agreement.

- 18. **Partial Indemnification**. If Indemnitee is entitled under any provision of this Agreement to indemnification by the Corporation for some or a portion of any Expenses or Liabilities, but not, however, for the total amount thereof, the Corporation shall nevertheless indemnify Indemnitee for the portion of such Expenses or Liabilities to which Indemnitee is entitled.
- 19. <u>Counterparts</u>. This Agreement may be executed in one or more counterparts, each of which shall for all purposes be deemed to be an original but all of which together shall constitute one and the same Agreement.

[signatures on following page(s)]

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of the date first written above.

CORPORATION:
ARTIVION, INC.
By: Name: Title:
INDEMNITEE:

CERTAIN INFORMATION HAS BEEN OMITTED OR REDACTED FROM THE VERSION OF THIS EXHIBIT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION TO PROTECT PERSONAL PRIVACY

ARTIVION, INC.

Change of Control Severance Agreement

This Change of Control Severance Agreement (this "Agreement") dated as of the 2nd day of August, 2022 is made and entered into by and between Artivion, Inc., a Delaware corporation ("Artivion" or the "Company") and John E. Davis (the "Executive").

RECITALS

- 1. It is expected that the Company from time to time will consider the possibility of an acquisition by another company or other change of control. The Board of Directors of the Company (the "Board"), upon the recommendation of its Compensation Committee, has determined that it is in the best interests of the Company and its shareholders to enter into this Change of Control Agreement in order to assure that the Company will have the continued dedication of Executive, notwithstanding the possibility, threat or occurrence of a Change of Control (as defined herein) of the Company.
- 2. The Board believes that it is in the best interests of the Company and its stockholders to provide Executive with an incentive to continue Executive's employment and to motivate Executive to maximize the value of the Company upon a Change in Control for the benefit of the stockholders.
- 3. The Board believes it is imperative to provide Executive with certain severance benefits upon Executive's termination of employment both prior to and following a Change in Control. These benefits will provide Executive with enhanced financial security and incentive and encouragement to remain with the Company notwithstanding the possibility of a Change in Control.
 - 4. Certain capitalized terms used in the Agreement are as defined below.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. CERTAIN DEFINITIONS.

- (a) "Effective Date" means the first date during the Change of Control Period (as defined herein) on which a Change of Control occurs. Notwithstanding anything in this Agreement to the contrary, if the Executive's employment with the Company is Terminated by the Company without Cause or by Executive for Good Reason (as such terms are defined herein) within the six (6) month period prior to the date on which the Change of Control occurs and if such Change of Control is consummated (such a Termination of employment, an "Anticipatory Termination"), then for all purposes of this Agreement the "Effective Date" means the date immediately prior to the date of such Termination of employment.
- (b) "<u>Change of Control Period</u>" means the period commencing on the date hereof and ending on December 31 of the year above; provided, however, that, commencing on December 31 of the year above, and each one-year anniversary of such date (such date and each such one-year anniversary thereof, the "Renewal Date") unless previously terminated, the Change of Control Period shall be automatically extended so as to terminate one (1) year from such Renewal Date, unless, at least thirty (30) days prior to the next Renewal Date, the Company shall give notice to the Executive that the Change of Control Period shall not be so extended.
 - (c) "Affiliated Company" means any company controlled by, controlling or under common control with the Company.
- (d) "Change of Control" means a change in the ownership or effective control of, or in the ownership of a substantial portion of the assets of, the Company, as described in paragraphs (i) through (iii) below.

(i) <u>Change in Ownership of the Company</u> . A change in the ownership of the Company shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires ownership of the Company stock that, together with the Company stock held by such person or group, constitutes more than 50% of the total voting power of the stock of the Company.
(A) If any one person or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, is considered to own more than 50% of the total voting power of the stock of the Company, the acquisition of additional the Company stock by such person or persons shall not be considered to cause a change in the ownership of the Company or to cause a change in the effective control of the Company (within the meaning of paragraph (ii) below).
(B) An increase in the percentage of the Company stock owned by any one person, or persons acting as a group

- (B) An increase in the percentage of the Company stock owned by any one person, or persons acting as a group (within the meaning of paragraph (iv)), as a result of a transaction in which the Company acquires its stock in exchange for property, shall be treated as an acquisition of stock for purposes of this paragraph (i).
- (C) Except as provided in (B) above, the provisions of this paragraph (i) shall apply only to the transfer or issuance of the Company stock if such stock remains outstanding after such transfer or issuance.

(ii) Change in Effective Control of the Company.

- (A) A change in the effective control of the Company shall occur on the date that either of (1) or (2) below occurs:
- (1) Any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) ownership of stock of the Company possessing 30% or more of the total voting power of the stock of the Company (the provisions of Sections l(d)(i) (B) and (C) above shall apply equally to this Section l(d)(i)(A)(D)(i)(A)(D)(D)(i)(A)(D)(D)(i)(A)(i)(A)
- (2) A majority of the members of the Company Board of Directors are replaced during any twelve (12) month period by Directors whose appointment or election is not endorsed by a majority of the Board of Directors prior to the date of the appointment or election.
- (B) A change in effective control of the Company also may occur with respect to any transaction in which either of the Company or the other entity involved in a transaction described in paragraph (iii) experiences a Change of Control event described in paragraphs (i) or (iii).
- (C) If any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), is considered to effectively control the Company (within the meaning of this paragraph (ii)), the acquisition of additional control of the Company by the same person or persons shall not be considered to cause a change in the effective control of the Company (or to cause a change in the ownership of the Company within the meaning of paragraph (i)).
- (iii) Change in Ownership of a Substantial Portion of the Company's Assets. A change in the ownership of a substantial portion of the Company's assets shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value (within the meaning of paragraph (iii)(B)) equal to or more than 40% of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions.
- (A) A transfer of the Company's assets shall not be treated as a change in the ownership of such assets if the assets are transferred to one or more of the following:
- (1) A shareholder of the Company (immediately before the asset transfer) in exchange for or with respect to Company stock;
- (2) An entity, 50% or more of the total value or voting power of which is owned, directly or indirectly, by the Company;

- (3) A person, or more than one person acting as a group (within the meaning of paragraph (iv)) that owns, directly or indirectly, 50% or more of the total value or voting power of all of the outstanding stock of the Company; or
- (4) An entity, at least 50% of the total value or voting power of which is owned, directly or indirectly, by a person described in paragraph (iii)(A)(3).

For purposes of this paragraph (iii)(A), and except as otherwise provided herein, a person's status is determined immediately after the transfer of assets.

- (B) For purposes of this paragraph (iii), gross fair market value means the value of all the Company assets, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.
- (iv) For purposes of this Section 1(d), persons shall be considered to be acting as a group if they are owners of an entity that enters into a merger, consolidation, purchase, or acquisition of assets, or similar business transaction with the Company. If a person, including an entity shareholder, owns stock in the Company and another entity with which the Company enters into a merger, consolidation, purchase, or acquisition of stock, or similar business transaction, such shareholder shall be considered to be acting as a group with the other shareholders in a corporation only to the extent of the ownership in that corporation prior to the transaction giving rise to the change and not with respect to the ownership interest in the other corporation. Persons shall not be considered to be acting as a group solely because they purchase or own stock of the Company at the same time, or as a result of the same public offering of the Company's stock.
- (v) Under no circumstances shall the reincorporation of the Company in a different state, or any action or inaction taken in furtherance thereof, constitute a Change of Control under this Agreement, including but not limited to efforts to end incorporation in the current state of incorporation or alterations to equity that facilitate such an event.
- (e) <u>Terminate</u> or <u>Termination</u> means a "separation from service" within the meaning of Section 409A of the Internal Revenue Code of 1986, as amended.

2. EMPLOYMENT.

Executive and the Company acknowledge that the employment of the Executive by the Company is "at will," and Executive shall have no rights under this Agreement unless Executive is Terminated by the Company without Cause or by the Executive with Good Reason during the period commencing on the Effective Date and ending on the second first anniversary of such date.

3. TERMS OF AT WILL EMPLOYMENT.

The terms of Executive's at will employment, as recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company, are incorporated herein.

4. TERMINATION OF EMPLOYMENT.

- (a) For purposes of this Agreement, "Cause" shall mean:
- (i) an act of fraud, embezzlement, theft or any other material violation of law that occurs during or in the course of the Executive's employment with the Company;
 - (ii) intentional or grossly negligent damage by Executive to the Company's assets;
- (iii) intentional or grossly negligent disclosure by Executive of the Company's confidential information contrary to the Company policies;
 - (iv) material breach of the Executive's obligations under this Agreement or any other Agreement with the Company;
- (v) engagement by the Executive in any activity which would constitute a breach of the Executive's duty of loyalty or of the Executive's assigned duties;
 - (vi) breach by the Executive of any of the company's policies and procedures;

- (vii) the willful and continued failure by Executive to perform the Executive's assigned duties (other than as a result of incapacity due to physical or mental illness); or
- (viii) willful conduct by the Executive that is demonstrably and materially injurious to the Company, monetarily or otherwise.
- (b) Good Reason. For purposes of this Agreement, "Good Reason" shall mean the assignment to the Executive, without the Executive's consent, of any duties materially inconsistent with the Executive's position (including changes in status, offices, or titles and any change in the Executive's reporting requirements that would cause Executive to report to an Executive who is junior in seniority to the employee to whom Executive reports), authority, duties or responsibilities, determined as of the later of the date of this Agreement or the date of any modification to Executive's position (including status, offices, titles and reporting requirements, as described above), authority, duties or responsibilities that is agreed to by Executive, or any other action by the Company that results in a material diminution in such position, authority, duties, responsibilities or Executive's aggregate compensation, excluding for this purpose an isolated, insubstantial and inadvertent action taken in good faith and which is remedied by the Company within thirty (30) days after receipt of notice thereof given by the Executive (each of these an "Event" for purposes of this Section 4(b)). Executive must notify the Company of any Event that constitutes Good Reason within ninety (90) days following Executive's knowledge of the existence of such Event or such Event shall not constitute Good Reason under this Agreement.
- (c) Notice of Termination. Any Termination by the Company for Cause, or by the Executive for Good Reason, shall be communicated by Notice of Termination to the other party hereto given in accordance with Section 11(b) of this Agreement. For purposes of this Agreement, a "Notice of Termination" means a written notice which (i) indicates the specific termination provision in this Agreement relied upon, (ii) to the extent applicable, sets forth in reasonable detail the facts and circumstances claimed to provide a basis for termination of the Executive's employment under the provision so indicated and (iii) specifies the termination date (which date shall not be more than thirty (30) days after the giving of such notice; *provided, however*, if Executive is terminating for Good Reason such date shall not be less than thirty (30) nor more than forty-five (45) days after giving of such notice). The failure by the Executive or the Company to set forth in the Notice of Termination any fact or circumstance which contributes to a showing of Good Reason or Cause shall not waive any right of the Executive or the Company, respectively, hereunder or preclude the Executive or the Company, respectively, from asserting such fact or circumstance in enforcing the Executive's or the Company's rights hereunder.
- (d) <u>Date of Termination</u>. "Date of Termination" means the date of receipt of the Notice of Termination, or any later date specified therein, as the case may be. The Company and the Executive shall take all steps necessary (including with regard to any post-Termination services by the Executive) to ensure that any Termination described in this Section 4 constitutes a "separation from service" within the meaning of Section 409A of the Code, and notwithstanding anything contained herein to the contrary, the date on which the separation from service takes place shall be the "Date of Termination."
- (e) <u>Covenants Necessary to the Company's Business.</u> The covenants recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company are incorporated herein, including but not limited to the covenant not to compete, the covenant regarding customer solicitation and interference, and the covenant regarding solicitation of employees. Officer covenants and agrees that the payment of any Severance Payment (as defined in Section 5(e) below) shall be subject to and expressly conditioned upon Officer's compliance with the covenants set forth in the Employee Proprietary Information Agreement, which have been incorporated herein. Should Officer fail to comply with these covenants, the Company shall not be required to make the Severance Payment (or any portion of the Severance Payment that remains unpaid), and the Officer shall be required to repay any portion of the Severance Payment that the Officer has already received from the Company.

5. OBLIGATIONS OF THE COMPANY UPON TERMINATION.

- (a) If, during the two (2) year period commencing on the Effective Date and ending on the second anniversary of the Effective Date, (i) the Company shall Terminate the Executive's employment without Cause, or (ii) the Executive shall Terminate employment for Good Reason, then the Company shall pay to Executive the Severance Payment (defined below).
- (b) <u>Severance Payment</u>. The "Severance Payment" shall be an amount equal to one and one-half (1½) times the aggregate of Executive's base salary as of the Date of Termination and cash bonus compensation for the year in which the Termination of employment occurs. For purposes of determining Executive's cash bonus compensation for purposes of this Section 5(b), if the Date of Termination occurs before the awarding of

bonuses for the year in which the Date of Termination occurs, the cash bonus compensation component of the Severance Payment shall be computed based on Executive's most recent awarded cash bonus. Cash bonus compensation shall include only the Annual Bonus paid in cash and shall specifically exclude the value of any non-cash bonuses, such as options or restricted stock. For the sake of clarification, all cash paid in payment of all or a portion of the bonus pursuant to the Company's 2007 Executive Incentive Plan or any successor thereto shall be bonus compensation for purposes of this Agreement for the year in which paid or issued. The Severance Payment shall be payable to Executive as follows:

- (i) Except for the group health plan benefits payments or as otherwise provided herein, the Severance Payment, if any is due hereunder, shall be paid to Executive in a lump sum not later than thirty (30) days following Executive's Date of Termination, unless the Termination is an Anticipatory Termination.
- (ii) In the event of an Anticipatory Termination, the Severance Payment, except for the group health plan benefits payments, shall be paid to Executive in a lump sum not later than thirty (30) days following the date of the Change of Control.
- (iii) Notwithstanding the foregoing, if any amount paid pursuant to this Section 5(b) is deferred compensation within the meaning of Section 409A of the Code and as of the Date of Termination Executive is a Specified Employee, amounts that would otherwise be payable during the six-month period immediately following the Date of Termination shall instead be paid, with interest on any delayed payment at the applicable federal rate provided for in Section 7872(f)(2)(A) of the Code, on the first business day after the date that is six months following Executive's "separation from service" within the meaning of Section 409A of the Code (the "Delayed Payment Date"). As used in this Agreement, the term "Specified Employee" means a "specified employee" as defined in Section 409A(a)(2)(B)(i) of the Internal Revenue Code of 1986, as amended (the "Code"). By way of clarification, "specified employee" means a "key employee" (as defined in Section 416(i) of the Code, disregarding Section 416(i)(5) of the Code) of the Company. Executive shall be treated as a key employee if the Executive meets the requirement of Section 416(i)(l)(A)(i), (ii), or (iii) at any time during the twelve (12) month period ending on an "identification date." For purposes of any "Specified Employee" determination hereunder, the "identification date" shall mean the last day of each calendar year.
- (c) Medical Coverage. In addition, group health plan coverage for the Executive and covered dependents, with the same contribution by the Executive, will be provided as part of the Severance Payment for the lesser of eighteen (18) months following the Date of Termination or until the Executive is provided comparable benefits by another employer.
- (d) Separation Agreement and Release of Claims. The receipt of any Severance Payment pursuant to this Agreement will be subject to the Executive signing and not revoking a separation agreement and release of claims in a form provided by the Company (the "Release"), which may include restatements of covenants contained in the Employee Proprietary Information Agreement among others, and provided that such Release becomes effective and irrevocable no later than sixty (60) days following the termination date (such deadline, the "Release Deadline"). If the Release does not become effective and irrevocable by the Release Deadline, Executive will forfeit any rights to severance under this Agreement. In no event will any Severance Payment be paid or provided until the Release becomes effective and irrevocable. Except as required by Section 5(b)(iii), any Severance Payment that would have been made to Executive prior to the Release becoming effective and irrevocable but for the preceding sentence will be paid to Executive on the first regularly scheduled Company payroll date following the date the Release becomes effective and irrevocable, and any remaining payments will be made as provided in the Agreement.

6. FULL SETTLEMENT.

In no event shall the Executive be obligated to seek other employment or take any other action by way of mitigation of the amounts payable to the Executive under any of the provisions of this Agreement and such amounts shall not be reduced whether or not the Executive obtains other employment. The Company agrees to pay, to the full extent permitted by law, all legal fees and expenses which the may reasonably incur as a result of any contest by the Company or Executive with respect to liability under or the interpretation of the validity or enforceability of, any provision of this Agreement, but only in the event and to the extent that (i) the Executive receives a final, non-appealable judgment in his favor in any such action or receives a final judgment in his favor that has not been appealed by the Company within thirty (30) days of the date of the judgment; or (ii) the parties agree to dismiss any such action upon the Company's payment of the sums allegedly due the Executive or performance of the covenants by the Company allegedly breached by it.

7. PAYMENT CUT-BACK.

- (a) Notwithstanding anything to the contrary contained herein, the Company will not pay to Executive any excise tax gross up pursuant to this Agreement or any other agreement between Executive and the Company. Further notwithstanding anything to the contrary contained herein, the Company shall reduce any payment contingent on a Change of Control pursuant to any plan, agreement, or arrangement of the Company that would be considered in determining whether a "parachute payment" (as defined in Section 280G ("Section 280G") of the Code), has occurred ("Change of Control Severance Payment") to 2.99 times Employee's average compensation, as indicated on such Employee's Form W-2, for the five (5) years ending immediately prior to the year containing the date of the Change of Control (the "Safe Harbor Amount") if, and only if, reducing the Change of Control Severance Payment would provide Executive with a greater net after-tax Change of Control Severance Payment than would be the case if no such reduction took place. The Safe Harbor Amount, as defined herein, is an amount expressed in present value which maximizes the aggregate present value of the Change of Control Severance Payment without causing the Change of Control Severance Payment to be subject to the excise tax under Section 4999 (and related Section 280G) of the Code (the "Excise Tax"), determined in accordance with Section 280G(d)(4). Any reduction in the Change of Control Severance Payment shall be implemented in accordance with Section 7(b).
- (b) (i) Any reduction in payments pursuant to Section 7(a) shall apply so as to minimize the amount of compensation that is reduced (i.e., it applies to payments that to the greatest extent represent parachute payments), *provided, however*, no reduction shall be applied to an amount that constitutes a deferral of compensation under Section 409A except for amounts that have become payable at the time of the reduction and as to which the reduction will not result in a non-reduction in a corresponding amount that is a deferral of compensation under Section 409A that is not currently payable.
- (ii) For purposes of determining whether the Change of Control Severance Payment will be subject to the Excise Tax and the amount of such Excise Tax:
- (A) The Change of Control Severance Payment shall be treated as a "parachute payment" within the meaning of Section 280G(b)(2), and if it is an "excess parachute payment" within the meaning of Section 280G(b)(l), it shall be treated as subject to the Excise Tax, unless, and except to the extent that, in the written opinion of independent compensation consultants, counsel or auditors of nationally recognized standing ("Independent Advisors") selected by the Company and reasonably acceptable to Executive, the Change of Control Severance Payment (in whole or in part) does not constitute a parachute payment, or such excess parachute payment (in whole or in part) represents reasonable compensation for services actually rendered within the meaning of Section 280G(b)(4) in excess of the base amount within the meaning of Section 280G(b)(3) or are otherwise not subject to the Excise Tax.
- (B) The value of any non-cash benefits or any deferred payment or benefit shall be determined by the Independent Advisors in accordance with the principles of Sections 280G(d)(3) and (4).
- (iii) For purposes of determining reductions in compensation pursuant to this Section 7(b), if any, Executive will be deemed (A) to pay federal income taxes at the applicable rates of federal income taxation for the calendar year in which the compensation would be payable; and (B) to pay any applicable state and local income taxes at the applicable rates of taxation for the calendar year in which the compensation would be payable, taking into account any effect on federal income taxes from payment of state and local income taxes. Compensation will be adjusted not later than the applicable deadline under Section 409A to provide for accurate payments under the cut-back provision of this Section 7(b), but after any such deadline no further adjustment will be made if it would result in a tax penalty under Section 409A.
- (c) Furthermore, notwithstanding anything in this Agreement to the contrary, aggregate Severance Payments, separation payments and/or similar payments made to Executive pursuant to this Agreement and otherwise shall be limited to the equivalent of Executive's salary paid during the three (3) completed fiscal years ended prior to the Date of Termination, including any bonuses and guaranteed benefits paid during those years.

8. CONFIDENTIAL INFORMATION.

The Executive and the Company will also be parties to one or more separate agreements respecting confidential information, trade secrets, inventions and non-competition, including but not limited to the Employee Proprietary Information Agreement, (collectively, the "IP Agreements"). The parties agree that the IP Agreements shall not be superseded or terminated by this Agreement and shall survive any termination of this Agreement; provided, however, that to the extent that there is any conflict or overlap between the provisions of this Agreement and any of the IP Agreements, those provisions that provide the Company with the greatest rights and protections shall control.

9. SUCCESSORS.

- (a) This Agreement is personal to the Executive and without the prior written consent of the Company shall not be assignable by the Executive otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by the Executive's legal representatives.
 - (b) This Agreement shall inure to the benefit of and be binding upon the Company and its successors and assigns.
- (c) The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Company to assume expressly and agree to perform this Agreement in the same manner and to the same extent that the Company would be required to perform it if no such succession had taken place. As used in this Agreement, "the Company" shall mean Artivion as hereinbefore defined and any successor to its business and/or assets as aforesaid which assumes and agrees to perform this Agreement by operation of law, or otherwise.

10. COMPLIANCE WITH SECTION 409A.

- (a) This Agreement is intended to comply with, or otherwise be exempt from, Section 409A of the Code and any regulations and Treasury guidance promulgated thereunder.
- (b) The Company and Executive agree that they will execute any and all amendments to this Agreement as they mutually agree in good faith may be necessary to ensure compliance with Section 409A of the Code.
- (c) The Company makes no representation or warranty as to the tax effect of any of the preceding provisions, and the provisions of this Agreement shall not be construed as a guarantee by the Company of any particular tax effect to Executive under this Agreement. The Company shall not be liable to Executive or any other person for any payment made under this Agreement which is determined to result in the imposition of an excise tax, penalty or interest under Section 409A of the Code, nor for reporting in good faith any payment made under this Agreement as an amount includible in gross income under Section 409A of the Code.

11. MISCELLANEOUS.

- (a) This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without reference to principles of conflict of laws. Both the Executive and the Company expressly consent to the exclusive venue of and personal jurisdiction within the state and federal courts located in Delaware for any lawsuit arising from or related to this Agreement
- (b) The captions of this Agreement are not part of the provisions hereof and shall have no force and effect. This Agreement may not be amended or modified otherwise than by a written agreement executed by the parties hereto or their respective successors and legal representatives.
- (c) All notices and other communications hereunder shall be in writing and shall be given by hand delivery (which shall include delivery via Federal Express or UPS) to the other party or by registered or certified mail, return receipt requested, postage prepaid, addressed as follows:

If to the Executive:

John E. Davis [REDACTED] [REDACTED]

If to the Company:

Artivion, Inc. 1655 Roberts Boulevard, N.W Kennesaw, GA 30144 Attention: Chief Executive Officer

or to such other address as either party shall have furnished to the other in writing in accordance herewith. Notice and communications shall be effective when actually received by the addressee.

- (d) If any provision of this Agreement or the application of any provision hereof to any person or circumstance is held invalid, unenforceable or otherwise illegal, the remainder of this Agreement and the application of such provision to any other person or circumstance shall not be affected, and the provision so held to be invalid, unenforceable or otherwise illegal shall be reformed to the extent (and only to the extent) necessary to make it valid, enforceable and legal; provided, however, if the provision so held to be invalid, unenforceable or otherwise illegal cannot be reformed so as to be valid and enforceable, then it shall be severed from, and shall not affect the enforceability of, the remaining provisions of the Agreement.
- (e) The Company may withhold from any amounts payable under this Agreement such federal, state, local or foreign taxes as shall be required to be withheld pursuant to any applicable law or regulation.
- (f) This Agreement supersedes any Change of Control Agreements previously entered into by and between Executive and Company and, along with the Employee Proprietary Information Agreements and other agreements noted herein, embodies the entire agreement between the parties with respect to the subject matter addressed herein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

/s/ John E. Davis John E. Davis, SVP, Global Sales and Marketing

ARTIVION, INC.

By: /s/ J. Patrick Mackin
J. Patrick Mackin
Chairman, President and CEO

CERTAIN INFORMATION HAS BEEN OMITTED OR REDACTED FROM THE VERSION OF THIS EXHIBIT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION TO PROTECT PERSONAL PRIVACY

ARTIVION, INC.

Change of Control Severance Agreement

This Change of Control Severance Agreement (this "Agreement") dated as of the 2nd day of August 2022 is made and entered into by and between Artivion, Inc., a Delaware corporation ("Artivion" or the "Company") and Jean F. Holloway (the "Executive").

RECITALS

- 1. It is expected that the Company from time to time will consider the possibility of an acquisition by another company or other change of control. The Board of Directors of the Company (the "Board"), upon the recommendation of its Compensation Committee, has determined that it is in the best interests of the Company and its shareholders to enter into this Change of Control Agreement in order to assure that the Company will have the continued dedication of Executive, notwithstanding the possibility, threat or occurrence of a Change of Control (as defined herein) of the Company.
- 2. The Board believes that it is in the best interests of the Company and its stockholders to provide Executive with an incentive to continue Executive's employment and to motivate Executive to maximize the value of the Company upon a Change in Control for the benefit of the stockholders.
- 3. The Board believes it is imperative to provide Executive with certain severance benefits upon Executive's termination of employment both prior to and following a Change in Control. These benefits will provide Executive with enhanced financial security and incentive and encouragement to remain with the Company notwithstanding the possibility of a Change in Control.
 - 4. Certain capitalized terms used in the Agreement are as defined below.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. CERTAIN DEFINITIONS.

- (a) "Effective Date" means the first date during the Change of Control Period (as defined herein) on which a Change of Control occurs. Notwithstanding anything in this Agreement to the contrary, if the Executive's employment with the Company is Terminated by the Company without Cause or by Executive for Good Reason (as such terms are defined herein) within the six (6) month period prior to the date on which the Change of Control occurs and if such Change of Control is consummated (such a Termination of employment, an "Anticipatory Termination"), then for all purposes of this Agreement the "Effective Date" means the date immediately prior to the date of such Termination of employment.
- (b) "<u>Change of Control Period</u>" means the period commencing on the date hereof and ending on December 31 of the year above; provided, however, that, commencing on December 31 of the year above, and each one-year anniversary of such date (such date and each such one-year anniversary thereof, the "Renewal Date") unless previously terminated, the Change of Control Period shall be automatically extended so as to terminate one (1) year from such Renewal Date, unless, at least thirty (30) days prior to the next Renewal Date, the Company shall give notice to the Executive that the Change of Control Period shall not be so extended.
 - (c) "Affiliated Company" means any company controlled by, controlling or under common control with the Company.
- (d) "Change of Control" means a change in the ownership or effective control of, or in the ownership of a substantial portion of the assets of, the Company, as described in paragraphs (i) through (iii) below.

(i) <u>Change in Ownership of the Company</u> . A change in the ownership of the Company shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires ownership of the Company stock that, together with the Company stock held by such person or group, constitutes more than 50% of the total voting power of the stock of the Company.
(A) If any one person or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, is considered to own more than 50% of the total voting power of the stock of the Company, the acquisition of additional the Company stock by such person or persons shall not be considered to cause a change in the ownership of the Company or to cause a change in the effective control of the Company (within the meaning of paragraph (ii) below).
(B) An increase in the percentage of the Company stock owned by any one person, or persons acting as a group (within the meaning of paragraph (iv)), as a result of a transaction in which the Company acquires its stock in exchange for property, shall be treated as an acquisition of stock for purposes of this paragraph (i).

(C) Except as provided in (B) above, the provisions of this paragraph (i) shall apply only to the transfer or issuance of the Company stock if such stock remains outstanding after such transfer or issuance.

(ii) Change in Effective Control of the Company.

Company stock;

- (A) A change in the effective control of the Company shall occur on the date that either of (1) or (2) below occurs:
- (1) Any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) ownership of stock of the Company possessing 30% or more of the total voting power of the stock of the Company (the provisions of Sections l(d)(i) (B) and (C) above shall apply equally to this Section l(d)(ii)(A)(l); or
- (2) A majority of the members of the Company Board of Directors are replaced during any twelve (12) month period by Directors whose appointment or election is not endorsed by a majority of the Board of Directors prior to the date of the appointment or election.
- (B) A change in effective control of the Company also may occur with respect to any transaction in which either of the Company or the other entity involved in a transaction described in paragraph (iii) experiences a Change of Control event described in paragraphs (i) or (iii).
- (C) If any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), is considered to effectively control the Company (within the meaning of this paragraph (ii)), the acquisition of additional control of the Company by the same person or persons shall not be considered to cause a change in the effective control of the Company (or to cause a change in the ownership of the Company within the meaning of paragraph (i)).
- (iii) Change in Ownership of a Substantial Portion of the Company's Assets. A change in the ownership of a substantial portion of the Company's assets shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value (within the meaning of paragraph (iii)(B)) equal to or more than 40% of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions.
- (A) A transfer of the Company's assets shall not be treated as a change in the ownership of such assets if the assets are transferred to one or more of the following:
 - (1) A shareholder of the Company (immediately before the asset transfer) in exchange for or with respect to
- (2) An entity, 50% or more of the total value or voting power of which is owned, directly or indirectly, by the Company;

- (3) A person, or more than one person acting as a group (within the meaning of paragraph (iv)) that owns, directly or indirectly, 50% or more of the total value or voting power of all of the outstanding stock of the Company; or
- (4) An entity, at least 50% of the total value or voting power of which is owned, directly or indirectly, by a person described in paragraph (iii)(A)(3).

For purposes of this paragraph (iii)(A), and except as otherwise provided herein, a person's status is determined immediately after the transfer of assets.

- (B) For purposes of this paragraph (iii), gross fair market value means the value of all the Company assets, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.
- (iv) For purposes of this Section 1(d), persons shall be considered to be acting as a group if they are owners of an entity that enters into a merger, consolidation, purchase, or acquisition of assets, or similar business transaction with the Company. If a person, including an entity shareholder, owns stock in the Company and another entity with which the Company enters into a merger, consolidation, purchase, or acquisition of stock, or similar business transaction, such shareholder shall be considered to be acting as a group with the other shareholders in a corporation only to the extent of the ownership in that corporation prior to the transaction giving rise to the change and not with respect to the ownership interest in the other corporation. Persons shall not be considered to be acting as a group solely because they purchase or own stock of the Company at the same time, or as a result of the same public offering of the Company's stock.
- (v) Under no circumstances shall the reincorporation of the Company in a different state, or any action or inaction taken in furtherance thereof, constitute a Change of Control under this Agreement, including but not limited to efforts to end incorporation in the current state of incorporation or alterations to equity that facilitate such an event.
- (e) <u>Terminate</u> or <u>Termination</u> means a "separation from service" within the meaning of Section 409A of the Internal Revenue Code of 1986, as amended.

2. EMPLOYMENT.

Executive and the Company acknowledge that the employment of the Executive by the Company is "at will," and Executive shall have no rights under this Agreement unless Executive is Terminated by the Company without Cause or by the Executive with Good Reason during the period commencing on the Effective Date and ending on the second first anniversary of such date.

3. TERMS OF AT WILL EMPLOYMENT.

The terms of Executive's at will employment, as recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company, are incorporated herein.

4. TERMINATION OF EMPLOYMENT.

- (a) For purposes of this Agreement, "Cause" shall mean:
- (i) an act of fraud, embezzlement, theft or any other material violation of law that occurs during or in the course of the Executive's employment with the Company;
 - (ii) intentional or grossly negligent damage by Executive to the Company's assets;
- (iii) intentional or grossly negligent disclosure by Executive of the Company's confidential information contrary to the Company policies;
 - (iv) material breach of the Executive's obligations under this Agreement or any other Agreement with the Company;
- (v) engagement by the Executive in any activity which would constitute a breach of the Executive's duty of loyalty or of the Executive's assigned duties;
 - (vi) breach by the Executive of any of the company's policies and procedures;

- (vii) the willful and continued failure by Executive to perform the Executive's assigned duties (other than as a result of incapacity due to physical or mental illness); or
- (viii) willful conduct by the Executive that is demonstrably and materially injurious to the Company, monetarily or otherwise.
- (b) Good Reason. For purposes of this Agreement, "Good Reason" shall mean the assignment to the Executive, without the Executive's consent, of any duties materially inconsistent with the Executive's position (including changes in status, offices, or titles and any change in the Executive's reporting requirements that would cause Executive to report to an Executive who is junior in seniority to the employee to whom Executive reports), authority, duties or responsibilities, determined as of the later of the date of this Agreement or the date of any modification to Executive's position (including status, offices, titles and reporting requirements, as described above), authority, duties or responsibilities that is agreed to by Executive, or any other action by the Company that results in a material diminution in such position, authority, duties, responsibilities or Executive's aggregate compensation, excluding for this purpose an isolated, insubstantial and inadvertent action taken in good faith and which is remedied by the Company within thirty (30) days after receipt of notice thereof given by the Executive (each of these an "Event" for purposes of this Section 4(b)). Executive must notify the Company of any Event that constitutes Good Reason within ninety (90) days following Executive's knowledge of the existence of such Event or such Event shall not constitute Good Reason under this Agreement.
- (c) Notice of Termination. Any Termination by the Company for Cause, or by the Executive for Good Reason, shall be communicated by Notice of Termination to the other party hereto given in accordance with Section 11(b) of this Agreement. For purposes of this Agreement, a "Notice of Termination" means a written notice which (i) indicates the specific termination provision in this Agreement relied upon, (ii) to the extent applicable, sets forth in reasonable detail the facts and circumstances claimed to provide a basis for termination of the Executive's employment under the provision so indicated and (iii) specifies the termination date (which date shall not be more than thirty (30) days after the giving of such notice; *provided, however*, if Executive is terminating for Good Reason such date shall not be less than thirty (30) nor more than forty-five (45) days after giving of such notice). The failure by the Executive or the Company to set forth in the Notice of Termination any fact or circumstance which contributes to a showing of Good Reason or Cause shall not waive any right of the Executive or the Company, respectively, hereunder or preclude the Executive or the Company, respectively, from asserting such fact or circumstance in enforcing the Executive's or the Company's rights hereunder.
- (d) <u>Date of Termination</u>. "Date of Termination" means the date of receipt of the Notice of Termination, or any later date specified therein, as the case may be. The Company and the Executive shall take all steps necessary (including with regard to any post-Termination services by the Executive) to ensure that any Termination described in this Section 4 constitutes a "separation from service" within the meaning of Section 409A of the Code, and notwithstanding anything contained herein to the contrary, the date on which the separation from service takes place shall be the "Date of Termination."
- (e) <u>Covenants Necessary to the Company's Business.</u> The covenants recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company are incorporated herein, including but not limited to the covenant not to compete, the covenant regarding customer solicitation and interference, and the covenant regarding solicitation of employees. Officer covenants and agrees that the payment of any Severance Payment (as defined in Section 5(e) below) shall be subject to and expressly conditioned upon Officer's compliance with the covenants set forth in the Employee Proprietary Information Agreement, which have been incorporated herein. Should Officer fail to comply with these covenants, the Company shall not be required to make the Severance Payment (or any portion of the Severance Payment that remains unpaid), and the Officer shall be required to repay any portion of the Severance Payment that the Officer has already received from the Company.

5. OBLIGATIONS OF THE COMPANY UPON TERMINATION.

- (a) If, during the two (2) year period commencing on the Effective Date and ending on the second anniversary of the Effective Date, (i) the Company shall Terminate the Executive's employment without Cause, or (ii) the Executive shall Terminate employment for Good Reason, then the Company shall pay to Executive the Severance Payment (defined below).
- (b) <u>Severance Payment</u>. The "Severance Payment" shall be an amount equal to one and one-half (1½) times the aggregate of Executive's base salary as of the Date of Termination and cash bonus compensation for the year in which the Termination of employment occurs. For purposes of determining Executive's cash bonus compensation for purposes of this Section 5(b), if the Date of Termination occurs before the awarding of

bonuses for the year in which the Date of Termination occurs, the cash bonus compensation component of the Severance Payment shall be computed based on Executive's most recent awarded cash bonus. Cash bonus compensation shall include only the Annual Bonus paid in cash and shall specifically exclude the value of any non-cash bonuses, such as options or restricted stock. For the sake of clarification, all cash paid in payment of all or a portion of the bonus pursuant to the Company's 2007 Executive Incentive Plan or any successor thereto shall be bonus compensation for purposes of this Agreement for the year in which paid or issued. The Severance Payment shall be payable to Executive as follows:

- (i) Except for the group health plan benefits payments or as otherwise provided herein, the Severance Payment, if any is due hereunder, shall be paid to Executive in a lump sum not later than thirty (30) days following Executive's Date of Termination, unless the Termination is an Anticipatory Termination.
- (ii) In the event of an Anticipatory Termination, the Severance Payment, except for the group health plan benefits payments, shall be paid to Executive in a lump sum not later than thirty (30) days following the date of the Change of Control.
- (iii) Notwithstanding the foregoing, if any amount paid pursuant to this Section 5(b) is deferred compensation within the meaning of Section 409A of the Code and as of the Date of Termination Executive is a Specified Employee, amounts that would otherwise be payable during the six-month period immediately following the Date of Termination shall instead be paid, with interest on any delayed payment at the applicable federal rate provided for in Section 7872(f)(2)(A) of the Code, on the first business day after the date that is six months following Executive's "separation from service" within the meaning of Section 409A of the Code (the "Delayed Payment Date"). As used in this Agreement, the term "Specified Employee" means a "specified employee" as defined in Section 409A(a)(2)(B)(i) of the Internal Revenue Code of 1986, as amended (the "Code"). By way of clarification, "specified employee" means a "key employee" (as defined in Section 416(i) of the Code, disregarding Section 416(i)(5) of the Code) of the Company. Executive shall be treated as a key employee if the Executive meets the requirement of Section 416(i)(l)(A)(i), (ii), or (iii) at any time during the twelve (12) month period ending on an "identification date." For purposes of any "Specified Employee" determination hereunder, the "identification date" shall mean the last day of each calendar year.
- (c) Medical Coverage. In addition, group health plan coverage for the Executive and covered dependents, with the same contribution by the Executive, will be provided as part of the Severance Payment for the lesser of eighteen (18) months following the Date of Termination or until the Executive is provided comparable benefits by another employer.
- (d) Separation Agreement and Release of Claims. The receipt of any Severance Payment pursuant to this Agreement will be subject to the Executive signing and not revoking a separation agreement and release of claims in a form provided by the Company (the "Release"), which may include restatements of covenants contained in the Employee Proprietary Information Agreement among others, and provided that such Release becomes effective and irrevocable no later than sixty (60) days following the termination date (such deadline, the "Release Deadline"). If the Release does not become effective and irrevocable by the Release Deadline, Executive will forfeit any rights to severance under this Agreement. In no event will any Severance Payment be paid or provided until the Release becomes effective and irrevocable. Except as required by Section 5(b)(iii), any Severance Payment that would have been made to Executive prior to the Release becoming effective and irrevocable but for the preceding sentence will be paid to Executive on the first regularly scheduled Company payroll date following the date the Release becomes effective and irrevocable, and any remaining payments will be made as provided in the Agreement.

6. FULL SETTLEMENT.

In no event shall the Executive be obligated to seek other employment or take any other action by way of mitigation of the amounts payable to the Executive under any of the provisions of this Agreement and such amounts shall not be reduced whether or not the Executive obtains other employment. The Company agrees to pay, to the full extent permitted by law, all legal fees and expenses which the may reasonably incur as a result of any contest by the Company or Executive with respect to liability under or the interpretation of the validity or enforceability of, any provision of this Agreement, but only in the event and to the extent that (i) the Executive receives a final, non-appealable judgment in his favor in any such action or receives a final judgment in his favor that has not been appealed by the Company within thirty (30) days of the date of the judgment; or (ii) the parties agree to dismiss any such action upon the Company's payment of the sums allegedly due the Executive or performance of the covenants by the Company allegedly breached by it.

7. PAYMENT CUT-BACK.

- (a) Notwithstanding anything to the contrary contained herein, the Company will not pay to Executive any excise tax gross up pursuant to this Agreement or any other agreement between Executive and the Company. Further notwithstanding anything to the contrary contained herein, the Company shall reduce any payment contingent on a Change of Control pursuant to any plan, agreement, or arrangement of the Company that would be considered in determining whether a "parachute payment" (as defined in Section 280G ("Section 280G") of the Code), has occurred ("Change of Control Severance Payment") to 2.99 times Employee's average compensation, as indicated on such Employee's Form W-2, for the five (5) years ending immediately prior to the year containing the date of the Change of Control (the "Safe Harbor Amount") if, and only if, reducing the Change of Control Severance Payment would provide Executive with a greater net after-tax Change of Control Severance Payment than would be the case if no such reduction took place. The Safe Harbor Amount, as defined herein, is an amount expressed in present value which maximizes the aggregate present value of the Change of Control Severance Payment without causing the Change of Control Severance Payment to be subject to the excise tax under Section 4999 (and related Section 280G) of the Code (the "Excise Tax"), determined in accordance with Section 280G(d)(4). Any reduction in the Change of Control Severance Payment shall be implemented in accordance with Section 7(b).
- (b) (i) Any reduction in payments pursuant to Section 7(a) shall apply so as to minimize the amount of compensation that is reduced (i.e., it applies to payments that to the greatest extent represent parachute payments), *provided, however*; no reduction shall be applied to an amount that constitutes a deferral of compensation under Section 409A except for amounts that have become payable at the time of the reduction and as to which the reduction will not result in a non-reduction in a corresponding amount that is a deferral of compensation under Section 409A that is not currently payable.
- (ii) For purposes of determining whether the Change of Control Severance Payment will be subject to the Excise Tax and the amount of such Excise Tax:
- (A) The Change of Control Severance Payment shall be treated as a "parachute payment" within the meaning of Section 280G(b)(2), and if it is an "excess parachute payment" within the meaning of Section 280G(b)(l), it shall be treated as subject to the Excise Tax, unless, and except to the extent that, in the written opinion of independent compensation consultants, counsel or auditors of nationally recognized standing ("Independent Advisors") selected by the Company and reasonably acceptable to Executive, the Change of Control Severance Payment (in whole or in part) does not constitute a parachute payment, or such excess parachute payment (in whole or in part) represents reasonable compensation for services actually rendered within the meaning of Section 280G(b)(4) in excess of the base amount within the meaning of Section 280G(b)(3) or are otherwise not subject to the Excise Tax.
- (B) The value of any non-cash benefits or any deferred payment or benefit shall be determined by the Independent Advisors in accordance with the principles of Sections 280G(d)(3) and (4).
- (iii) For purposes of determining reductions in compensation pursuant to this Section 7(b), if any, Executive will be deemed (A) to pay federal income taxes at the applicable rates of federal income taxation for the calendar year in which the compensation would be payable; and (B) to pay any applicable state and local income taxes at the applicable rates of taxation for the calendar year in which the compensation would be payable, taking into account any effect on federal income taxes from payment of state and local income taxes. Compensation will be adjusted not later than the applicable deadline under Section 409A to provide for accurate payments under the cut-back provision of this Section 7(b), but after any such deadline no further adjustment will be made if it would result in a tax penalty under Section 409A.
- (c) Furthermore, notwithstanding anything in this Agreement to the contrary, aggregate Severance Payments, separation payments and/or similar payments made to Executive pursuant to this Agreement and otherwise shall be limited to the equivalent of Executive's salary paid during the three (3) completed fiscal years ended prior to the Date of Termination, including any bonuses and guaranteed benefits paid during those years.

8. CONFIDENTIAL INFORMATION.

The Executive and the Company will also be parties to one or more separate agreements respecting confidential information, trade secrets, inventions and non-competition, including but not limited to the Employee Proprietary Information Agreement, (collectively, the "IP Agreements"). The parties agree that the IP Agreements shall not be superseded or terminated by this Agreement and shall survive any termination of this Agreement; provided, however, that to the extent that there is any conflict or overlap between the provisions of this Agreement and any of the IP Agreements, those provisions that provide the Company with the greatest rights and protections shall control.

9. SUCCESSORS.

- (a) This Agreement is personal to the Executive and without the prior written consent of the Company shall not be assignable by the Executive otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by the Executive's legal representatives.
 - (b) This Agreement shall inure to the benefit of and be binding upon the Company and its successors and assigns.
- (c) The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Company to assume expressly and agree to perform this Agreement in the same manner and to the same extent that the Company would be required to perform it if no such succession had taken place. As used in this Agreement, "the Company" shall mean Artivion as hereinbefore defined and any successor to its business and/or assets as aforesaid which assumes and agrees to perform this Agreement by operation of law, or otherwise.

10. COMPLIANCE WITH SECTION 409A.

- (a) This Agreement is intended to comply with, or otherwise be exempt from, Section 409A of the Code and any regulations and Treasury guidance promulgated thereunder.
- (b) The Company and Executive agree that they will execute any and all amendments to this Agreement as they mutually agree in good faith may be necessary to ensure compliance with Section 409A of the Code.
- (c) The Company makes no representation or warranty as to the tax effect of any of the preceding provisions, and the provisions of this Agreement shall not be construed as a guarantee by the Company of any particular tax effect to Executive under this Agreement. The Company shall not be liable to Executive or any other person for any payment made under this Agreement which is determined to result in the imposition of an excise tax, penalty or interest under Section 409A of the Code, nor for reporting in good faith any payment made under this Agreement as an amount includible in gross income under Section 409A of the Code.

11. MISCELLANEOUS.

- (a) This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without reference to principles of conflict of laws. Both the Executive and the Company expressly consent to the exclusive venue of and personal jurisdiction within the state and federal courts located in Delaware for any lawsuit arising from or related to this Agreement
- (b) The captions of this Agreement are not part of the provisions hereof and shall have no force and effect. This Agreement may not be amended or modified otherwise than by a written agreement executed by the parties hereto or their respective successors and legal representatives.
- (c) All notices and other communications hereunder shall be in writing and shall be given by hand delivery (which shall include delivery via Federal Express or UPS) to the other party or by registered or certified mail, return receipt requested, postage prepaid, addressed as follows:

If to the Executive:

Jean F. Holloway [REDACTED] [REDACTED] If to the Company:

Artivion, Inc. 1655 Roberts Boulevard, N.W Kennesaw, GA 30144 Attention: Chief Executive Officer

or to such other address as either party shall have furnished to the other in writing in accordance herewith. Notice and communications shall be effective when actually received by the addressee.

- (d) If any provision of this Agreement or the application of any provision hereof to any person or circumstance is held invalid, unenforceable or otherwise illegal, the remainder of this Agreement and the application of such provision to any other person or circumstance shall not be affected, and the provision so held to be invalid, unenforceable or otherwise illegal shall be reformed to the extent (and only to the extent) necessary to make it valid, enforceable and legal; provided, however, if the provision so held to be invalid, unenforceable or otherwise illegal cannot be reformed so as to be valid and enforceable, then it shall be severed from, and shall not affect the enforceability of, the remaining provisions of the Agreement.
- (e) The Company may withhold from any amounts payable under this Agreement such federal, state, local or foreign taxes as shall be required to be withheld pursuant to any applicable law or regulation.
- (f) This Agreement supersedes any Change of Control Agreements previously entered into by and between Executive and Company and, along with the Employee Proprietary Information Agreements and other agreements noted herein, embodies the entire agreement between the parties with respect to the subject matter addressed herein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

/s/ Jean F. Holloway Jean F. Holloway

SVP, General Counsel, Chief Compliance Officer and Corporate Secretary

ARTIVION, INC.

By: /s/ J. Patrick Mackin
J. Patrick Mackin
Chairman, President and CEO

CERTAIN INFORMATION HAS BEEN OMITTED OR REDACTED FROM THE VERSION OF THIS EXHIBIT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION TO PROTECT PERSONAL PRIVACY

ARTIVION, INC.

Change of Control Severance Agreement

This Change of Control Severance Agreement (this "Agreement") dated as of the 2nd day of August, 2022 is made and entered into by and between Artivion, Inc., a Delaware corporation ("Artivion" or the "Company") and D. Ashley Lee (the "Executive").

RECITALS

- 1. It is expected that the Company from time to time will consider the possibility of an acquisition by another company or other change of control. The Board of Directors of the Company (the "Board"), upon the recommendation of its Compensation Committee, has determined that it is in the best interests of the Company and its shareholders to enter into this Change of Control Agreement in order to assure that the Company will have the continued dedication of Executive, notwithstanding the possibility, threat or occurrence of a Change of Control (as defined herein) of the Company.
- 2. The Board believes that it is in the best interests of the Company and its stockholders to provide Executive with an incentive to continue Executive's employment and to motivate Executive to maximize the value of the Company upon a Change in Control for the benefit of the stockholders.
- 3. The Board believes it is imperative to provide Executive with certain severance benefits upon Executive's termination of employment both prior to and following a Change in Control. These benefits will provide Executive with enhanced financial security and incentive and encouragement to remain with the Company notwithstanding the possibility of a Change in Control.
 - 4. Certain capitalized terms used in the Agreement are as defined below.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. CERTAIN DEFINITIONS.

- (a) "Effective Date" means the first date during the Change of Control Period (as defined herein) on which a Change of Control occurs. Notwithstanding anything in this Agreement to the contrary, if the Executive's employment with the Company is Terminated by the Company without Cause or by Executive for Good Reason (as such terms are defined herein) within the six (6) month period prior to the date on which the Change of Control occurs and if such Change of Control is consummated (such a Termination of employment, an "Anticipatory Termination"), then for all purposes of this Agreement the "Effective Date" means the date immediately prior to the date of such Termination of employment.
- (b) "<u>Change of Control Period</u>" means the period commencing on the date hereof and ending on December 31 of the year above; provided, however, that, commencing on December 31 of the year above, and each one-year anniversary of such date (such date and each such one-year anniversary thereof, the "Renewal Date") unless previously terminated, the Change of Control Period shall be automatically extended so as to terminate one (1) year from such Renewal Date, unless, at least thirty (30) days prior to the next Renewal Date, the Company shall give notice to the Executive that the Change of Control Period shall not be so extended.
 - (c) "Affiliated Company" means any company controlled by, controlling or under common control with the Company.
- (d) "Change of Control" means a change in the ownership or effective control of, or in the ownership of a substantial portion of the assets of, the Company, as described in paragraphs (i) through (iii) below.

(i) <u>Change in Ownership of the Company</u> . A change in the ownership of the Company shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires ownership of the Company stock that, together with the Company stock held by such person or group, constitutes more than 50% of the total voting power of the stock of the Company.
(A) If any one person or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, is considered to own more than 50% of the total voting power of the stock of the Company, the acquisition of additional the Company stock by such person or persons shall not be considered to cause a change in the ownership of the Company or to cause a change in the effective control of the Company (within the meaning of paragraph (ii) below).
(B) An increase in the percentage of the Company stock owned by any one person, or persons acting as a group (within the meaning of paragraph (iv)), as a result of a transaction in which the Company acquires its stock in exchange for property, shall be treated as an acquisition of stock for purposes of this paragraph (i).

(C) Except as provided in (B) above, the provisions of this paragraph (i) shall apply only to the transfer or issuance of the Company stock if such stock remains outstanding after such transfer or issuance.

(ii) Change in Effective Control of the Company.

Company stock;

- (A) A change in the effective control of the Company shall occur on the date that either of (1) or (2) below occurs:
- (1) Any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) ownership of stock of the Company possessing 30% or more of the total voting power of the stock of the Company (the provisions of Sections l(d)(i) (B) and (C) above shall apply equally to this Section l(d)(ii)(A)(l); or
- (2) A majority of the members of the Company Board of Directors are replaced during any twelve (12) month period by Directors whose appointment or election is not endorsed by a majority of the Board of Directors prior to the date of the appointment or election.
- (B) A change in effective control of the Company also may occur with respect to any transaction in which either of the Company or the other entity involved in a transaction described in paragraph (iii) experiences a Change of Control event described in paragraphs (i) or (iii).
- (C) If any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), is considered to effectively control the Company (within the meaning of this paragraph (ii)), the acquisition of additional control of the Company by the same person or persons shall not be considered to cause a change in the effective control of the Company (or to cause a change in the ownership of the Company within the meaning of paragraph (i)).
- (iii) Change in Ownership of a Substantial Portion of the Company's Assets. A change in the ownership of a substantial portion of the Company's assets shall occur on the date that any one person, or more than one person acting as a group (within the meaning of paragraph (iv)), other than a group of which Executive is a member, acquires (or has acquired during the twelve (12) month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value (within the meaning of paragraph (iii)(B)) equal to or more than 40% of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions.
- (A) A transfer of the Company's assets shall not be treated as a change in the ownership of such assets if the assets are transferred to one or more of the following:
 - (1) A shareholder of the Company (immediately before the asset transfer) in exchange for or with respect to
- (2) An entity, 50% or more of the total value or voting power of which is owned, directly or indirectly, by the Company;

- (3) A person, or more than one person acting as a group (within the meaning of paragraph (iv)) that owns, directly or indirectly, 50% or more of the total value or voting power of all of the outstanding stock of the Company; or
- (4) An entity, at least 50% of the total value or voting power of which is owned, directly or indirectly, by a person described in paragraph (iii)(A)(3).

For purposes of this paragraph (iii)(A), and except as otherwise provided herein, a person's status is determined immediately after the transfer of assets.

- (B) For purposes of this paragraph (iii), gross fair market value means the value of all the Company assets, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.
- (iv) For purposes of this Section 1(d), persons shall be considered to be acting as a group if they are owners of an entity that enters into a merger, consolidation, purchase, or acquisition of assets, or similar business transaction with the Company. If a person, including an entity shareholder, owns stock in the Company and another entity with which the Company enters into a merger, consolidation, purchase, or acquisition of stock, or similar business transaction, such shareholder shall be considered to be acting as a group with the other shareholders in a corporation only to the extent of the ownership in that corporation prior to the transaction giving rise to the change and not with respect to the ownership interest in the other corporation. Persons shall not be considered to be acting as a group solely because they purchase or own stock of the Company at the same time, or as a result of the same public offering of the Company's stock.
- (v) Under no circumstances shall the reincorporation of the Company in a different state, or any action or inaction taken in furtherance thereof, constitute a Change of Control under this Agreement, including but not limited to efforts to end incorporation in the current state of incorporation or alterations to equity that facilitate such an event.
- (e) <u>Terminate</u> or <u>Termination</u> means a "separation from service" within the meaning of Section 409A of the Internal Revenue Code of 1986, as amended.

2. EMPLOYMENT.

Executive and the Company acknowledge that the employment of the Executive by the Company is "at will," and Executive shall have no rights under this Agreement unless Executive is Terminated by the Company without Cause or by the Executive with Good Reason during the period commencing on the Effective Date and ending on the second first anniversary of such date.

3. TERMS OF AT WILL EMPLOYMENT.

The terms of Executive's at will employment, as recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company, are incorporated herein.

4. TERMINATION OF EMPLOYMENT.

- (a) For purposes of this Agreement, "Cause" shall mean:
- (i) an act of fraud, embezzlement, theft or any other material violation of law that occurs during or in the course of the Executive's employment with the Company;
 - (ii) intentional or grossly negligent damage by Executive to the Company's assets;
- (iii) intentional or grossly negligent disclosure by Executive of the Company's confidential information contrary to the Company policies;
 - (iv) material breach of the Executive's obligations under this Agreement or any other Agreement with the Company;
- (v) engagement by the Executive in any activity which would constitute a breach of the Executive's duty of loyalty or of the Executive's assigned duties;
 - (vi) breach by the Executive of any of the company's policies and procedures;

- (vii) the willful and continued failure by Executive to perform the Executive's assigned duties (other than as a result of incapacity due to physical or mental illness); or
- (viii) willful conduct by the Executive that is demonstrably and materially injurious to the Company, monetarily or otherwise.
- (b) Good Reason. For purposes of this Agreement, "Good Reason" shall mean the assignment to the Executive, without the Executive's consent, of any duties materially inconsistent with the Executive's position (including changes in status, offices, or titles and any change in the Executive's reporting requirements that would cause Executive to report to an Executive who is junior in seniority to the employee to whom Executive reports), authority, duties or responsibilities, determined as of the later of the date of this Agreement or the date of any modification to Executive's position (including status, offices, titles and reporting requirements, as described above), authority, duties or responsibilities that is agreed to by Executive, or any other action by the Company that results in a material diminution in such position, authority, duties, responsibilities or Executive's aggregate compensation, excluding for this purpose an isolated, insubstantial and inadvertent action taken in good faith and which is remedied by the Company within thirty (30) days after receipt of notice thereof given by the Executive (each of these an "Event" for purposes of this Section 4(b)). Executive must notify the Company of any Event that constitutes Good Reason within ninety (90) days following Executive's knowledge of the existence of such Event or such Event shall not constitute Good Reason under this Agreement.
- (c) Notice of Termination. Any Termination by the Company for Cause, or by the Executive for Good Reason, shall be communicated by Notice of Termination to the other party hereto given in accordance with Section 11(b) of this Agreement. For purposes of this Agreement, a "Notice of Termination" means a written notice which (i) indicates the specific termination provision in this Agreement relied upon, (ii) to the extent applicable, sets forth in reasonable detail the facts and circumstances claimed to provide a basis for termination of the Executive's employment under the provision so indicated and (iii) specifies the termination date (which date shall not be more than thirty (30) days after the giving of such notice; *provided, however*, if Executive is terminating for Good Reason such date shall not be less than thirty (30) nor more than forty-five (45) days after giving of such notice). The failure by the Executive or the Company to set forth in the Notice of Termination any fact or circumstance which contributes to a showing of Good Reason or Cause shall not waive any right of the Executive or the Company, respectively, hereunder or preclude the Executive or the Company, respectively, from asserting such fact or circumstance in enforcing the Executive's or the Company's rights hereunder.
- (d) <u>Date of Termination</u>. "Date of Termination" means the date of receipt of the Notice of Termination, or any later date specified therein, as the case may be. The Company and the Executive shall take all steps necessary (including with regard to any post-Termination services by the Executive) to ensure that any Termination described in this Section 4 constitutes a "separation from service" within the meaning of Section 409A of the Code, and notwithstanding anything contained herein to the contrary, the date on which the separation from service takes place shall be the "Date of Termination."
- (e) <u>Covenants Necessary to the Company's Business</u>. The covenants recorded in the Employee Proprietary Information Agreement executed by the Executive and the Company are incorporated herein, including but not limited to the covenant not to compete, the covenant regarding customer solicitation and interference, and the covenant regarding solicitation of employees. Officer covenants and agrees that the payment of any Severance Payment (as defined in Section 5(e) below) shall be subject to and expressly conditioned upon Officer's compliance with the covenants set forth in the Employee Proprietary Information Agreement, which have been incorporated herein. Should Officer fail to comply with these covenants, the Company shall not be required to make the Severance Payment (or any portion of the Severance Payment that remains unpaid), and the Officer shall be required to repay any portion of the Severance Payment that the Officer has already received from the Company.

5. OBLIGATIONS OF THE COMPANY UPON TERMINATION.

- (a) If, during the two (2) year period commencing on the Effective Date and ending on the second anniversary of the Effective Date, (i) the Company shall Terminate the Executive's employment without Cause, or (ii) the Executive shall Terminate employment for Good Reason, then the Company shall pay to Executive the Severance Payment (defined below).
- (b) <u>Severance Payment</u>. The "Severance Payment" shall be an amount equal to two (2) times the aggregate of Executive's base salary as of the Date of Termination and cash bonus compensation for the year in which the Termination of employment occurs. For purposes of determining Executive's cash bonus compensation for purposes of this Section 5(b), if the Date of Termination occurs before the awarding of bonuses

for the year in which the Date of Termination occurs, the cash bonus compensation component of the Severance Payment shall be computed based on Executive's most recent awarded cash bonus. Cash bonus compensation shall include only the Annual Bonus paid in cash and shall specifically exclude the value of any non-cash bonuses, such as options or restricted stock. For the sake of clarification, all cash paid in payment of all or a portion of the bonus pursuant to the Company's 2007 Executive Incentive Plan or any successor thereto shall be bonus compensation for purposes of this Agreement for the year in which paid or issued. The Severance Payment shall be payable to Executive as follows:

- (i) Except for the group health plan benefits payments or as otherwise provided herein, the Severance Payment, if any is due hereunder, shall be paid to Executive in a lump sum not later than thirty (30) days following Executive's Date of Termination, unless the Termination is an Anticipatory Termination.
- (ii) In the event of an Anticipatory Termination, the Severance Payment, except for the group health plan benefits payments, shall be paid to Executive in a lump sum not later than thirty (30) days following the date of the Change of Control.
- (iii) Notwithstanding the foregoing, if any amount paid pursuant to this Section 5(b) is deferred compensation within the meaning of Section 409A of the Code and as of the Date of Termination Executive is a Specified Employee, amounts that would otherwise be payable during the six-month period immediately following the Date of Termination shall instead be paid, with interest on any delayed payment at the applicable federal rate provided for in Section 7872(f)(2)(A) of the Code, on the first business day after the date that is six months following Executive's "separation from service" within the meaning of Section 409A of the Code (the "Delayed Payment Date"). As used in this Agreement, the term "Specified Employee" means a "specified employee" as defined in Section 409A(a)(2)(B)(i) of the Internal Revenue Code of 1986, as amended (the "Code"). By way of clarification, "specified employee" means a "key employee" (as defined in Section 416(i) of the Code, disregarding Section 416(i)(5) of the Code) of the Company. Executive shall be treated as a key employee if the Executive meets the requirement of Section 416(i)(l)(A)(i), (ii), or (iii) at any time during the twelve (12) month period ending on an "identification date." For purposes of any "Specified Employee" determination hereunder, the "identification date" shall mean the last day of each calendar year.
- (c) Medical Coverage. In addition, group health plan coverage for the Executive and covered dependents, with the same contribution by the Executive, will be provided as part of the Severance Payment for the lesser of eighteen (18) months following the Date of Termination or until the Executive is provided comparable benefits by another employer.
- (d) Separation Agreement and Release of Claims. The receipt of any Severance Payment pursuant to this Agreement will be subject to the Executive signing and not revoking a separation agreement and release of claims in a form provided by the Company (the "Release"), which may include restatements of covenants contained in the Employee Proprietary Information Agreement among others, and provided that such Release becomes effective and irrevocable no later than sixty (60) days following the termination date (such deadline, the "Release Deadline"). If the Release does not become effective and irrevocable by the Release Deadline, Executive will forfeit any rights to severance under this Agreement. In no event will any Severance Payment be paid or provided until the Release becomes effective and irrevocable. Except as required by Section 5(b)(iii), any Severance Payment that would have been made to Executive prior to the Release becoming effective and irrevocable but for the preceding sentence will be paid to Executive on the first regularly scheduled Company payroll date following the date the Release becomes effective and irrevocable, and any remaining payments will be made as provided in the Agreement.

6. FULL SETTLEMENT.

In no event shall the Executive be obligated to seek other employment or take any other action by way of mitigation of the amounts payable to the Executive under any of the provisions of this Agreement and such amounts shall not be reduced whether or not the Executive obtains other employment. The Company agrees to pay, to the full extent permitted by law, all legal fees and expenses which the may reasonably incur as a result of any contest by the Company or Executive with respect to liability under or the interpretation of the validity or enforceability of, any provision of this Agreement, but only in the event and to the extent that (i) the Executive receives a final, non-appealable judgment in his favor in any such action or receives a final judgment in his favor that has not been appealed by the Company within thirty (30) days of the date of the judgment; or (ii) the parties agree to dismiss any such action upon the Company's payment of the sums allegedly due the Executive or performance of the covenants by the Company allegedly breached by it.

7. PAYMENT CUT-BACK.

- (a) Notwithstanding anything to the contrary contained herein, the Company will not pay to Executive any excise tax gross up pursuant to this Agreement or any other agreement between Executive and the Company. Further notwithstanding anything to the contrary contained herein, the Company shall reduce any payment contingent on a Change of Control pursuant to any plan, agreement, or arrangement of the Company that would be considered in determining whether a "parachute payment" (as defined in Section 280G ("Section 280G") of the Code), has occurred ("Change of Control Severance Payment") to 2.99 times Employee's average compensation, as indicated on such Employee's Form W-2, for the five (5) years ending immediately prior to the year containing the date of the Change of Control (the "Safe Harbor Amount") if, and only if, reducing the Change of Control Severance Payment would provide Executive with a greater net after-tax Change of Control Severance Payment than would be the case if no such reduction took place. The Safe Harbor Amount, as defined herein, is an amount expressed in present value which maximizes the aggregate present value of the Change of Control Severance Payment without causing the Change of Control Severance Payment to be subject to the excise tax under Section 4999 (and related Section 280G) of the Code (the "Excise Tax"), determined in accordance with Section 280G(d)(4). Any reduction in the Change of Control Severance Payment shall be implemented in accordance with Section 7(b).
- (b) (i) Any reduction in payments pursuant to Section 7(a) shall apply so as to minimize the amount of compensation that is reduced (i.e., it applies to payments that to the greatest extent represent parachute payments), *provided, however*; no reduction shall be applied to an amount that constitutes a deferral of compensation under Section 409A except for amounts that have become payable at the time of the reduction and as to which the reduction will not result in a non-reduction in a corresponding amount that is a deferral of compensation under Section 409A that is not currently payable.
- (ii) For purposes of determining whether the Change of Control Severance Payment will be subject to the Excise Tax and the amount of such Excise Tax:
- (A) The Change of Control Severance Payment shall be treated as a "parachute payment" within the meaning of Section 280G(b)(2), and if it is an "excess parachute payment" within the meaning of Section 280G(b)(l), it shall be treated as subject to the Excise Tax, unless, and except to the extent that, in the written opinion of independent compensation consultants, counsel or auditors of nationally recognized standing ("Independent Advisors") selected by the Company and reasonably acceptable to Executive, the Change of Control Severance Payment (in whole or in part) does not constitute a parachute payment, or such excess parachute payment (in whole or in part) represents reasonable compensation for services actually rendered within the meaning of Section 280G(b)(4) in excess of the base amount within the meaning of Section 280G(b)(3) or are otherwise not subject to the Excise Tax.
- (B) The value of any non-cash benefits or any deferred payment or benefit shall be determined by the Independent Advisors in accordance with the principles of Sections 280G(d)(3) and (4).
- (iii) For purposes of determining reductions in compensation pursuant to this Section 7(b), if any, Executive will be deemed (A) to pay federal income taxes at the applicable rates of federal income taxation for the calendar year in which the compensation would be payable; and (B) to pay any applicable state and local income taxes at the applicable rates of taxation for the calendar year in which the compensation would be payable, taking into account any effect on federal income taxes from payment of state and local income taxes. Compensation will be adjusted not later than the applicable deadline under Section 409A to provide for accurate payments under the cut-back provision of this Section 7(b), but after any such deadline no further adjustment will be made if it would result in a tax penalty under Section 409A.
- (c) Furthermore, notwithstanding anything in this Agreement to the contrary, aggregate Severance Payments, separation payments and/or similar payments made to Executive pursuant to this Agreement and otherwise shall be limited to the equivalent of Executive's salary paid during the three (3) completed fiscal years ended prior to the Date of Termination, including any bonuses and guaranteed benefits paid during those years.

8. CONFIDENTIAL INFORMATION.

The Executive and the Company will also be parties to one or more separate agreements respecting confidential information, trade secrets, inventions and non-competition, including but not limited to the Employee Proprietary Information Agreement, (collectively, the "IP Agreements"). The parties agree that the IP Agreements shall not be superseded or terminated by this Agreement and shall survive any termination of this Agreement; provided, however, that to the extent that there is any conflict or overlap between the provisions of this Agreement and any of the IP Agreements, those provisions that provide the Company with the greatest rights and protections shall control.

9. SUCCESSORS.

- (a) This Agreement is personal to the Executive and without the prior written consent of the Company shall not be assignable by the Executive otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by the Executive's legal representatives.
 - (b) This Agreement shall inure to the benefit of and be binding upon the Company and its successors and assigns.
- (c) The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Company to assume expressly and agree to perform this Agreement in the same manner and to the same extent that the Company would be required to perform it if no such succession had taken place. As used in this Agreement, "the Company" shall mean Artivion as hereinbefore defined and any successor to its business and/or assets as aforesaid which assumes and agrees to perform this Agreement by operation of law, or otherwise.

10. COMPLIANCE WITH SECTION 409A.

- (a) This Agreement is intended to comply with, or otherwise be exempt from, Section 409A of the Code and any regulations and Treasury guidance promulgated thereunder.
- (b) The Company and Executive agree that they will execute any and all amendments to this Agreement as they mutually agree in good faith may be necessary to ensure compliance with Section 409A of the Code.
- (c) The Company makes no representation or warranty as to the tax effect of any of the preceding provisions, and the provisions of this Agreement shall not be construed as a guarantee by the Company of any particular tax effect to Executive under this Agreement. The Company shall not be liable to Executive or any other person for any payment made under this Agreement which is determined to result in the imposition of an excise tax, penalty or interest under Section 409A of the Code, nor for reporting in good faith any payment made under this Agreement as an amount includible in gross income under Section 409A of the Code.

11. MISCELLANEOUS.

- (a) This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware, without reference to principles of conflict of laws. Both the Executive and the Company expressly consent to the exclusive venue of and personal jurisdiction within the state and federal courts located in Delaware for any lawsuit arising from or related to this Agreement
- (b) The captions of this Agreement are not part of the provisions hereof and shall have no force and effect. This Agreement may not be amended or modified otherwise than by a written agreement executed by the parties hereto or their respective successors and legal representatives.
- (c) All notices and other communications hereunder shall be in writing and shall be given by hand delivery (which shall include delivery via Federal Express or UPS) to the other party or by registered or certified mail, return receipt requested, postage prepaid, addressed as follows:

If to the Executive:

D. Ashley Lee [REDACTED] [REDACTED]

If to the Company:

Artivion, Inc. 1655 Roberts Boulevard, N.W Kennesaw, GA 30144 Attention: Chief Executive Officer

or to such other address as either party shall have furnished to the other in writing in accordance herewith. Notice and communications shall be effective when actually received by the addressee.

- (d) If any provision of this Agreement or the application of any provision hereof to any person or circumstance is held invalid, unenforceable or otherwise illegal, the remainder of this Agreement and the application of such provision to any other person or circumstance shall not be affected, and the provision so held to be invalid, unenforceable or otherwise illegal shall be reformed to the extent (and only to the extent) necessary to make it valid, enforceable and legal; provided, however, if the provision so held to be invalid, unenforceable or otherwise illegal cannot be reformed so as to be valid and enforceable, then it shall be severed from, and shall not affect the enforceability of, the remaining provisions of the Agreement.
- (e) The Company may withhold from any amounts payable under this Agreement such federal, state, local or foreign taxes as shall be required to be withheld pursuant to any applicable law or regulation.
- (f) This Agreement supersedes any Change of Control Agreements previously entered into by and between Executive and Company and, along with the Employee Proprietary Information Agreements and other agreements noted herein, embodies the entire agreement between the parties with respect to the subject matter addressed herein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

/s/ D. Ashley Lee
D. Ashley Lee, EVP and CFO

ARTIVION, INC.

By: /s/ J. Patrick Mackin
J. Patrick Mackin
Chairman, President and CEO

CERTIFICATIONS

- I, James Patrick Mackin, certify that:
- 1. I have reviewed this quarterly report on Form 10-Q of Artivion, 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.

Date: November 4, 2022

/s/ J. PATRICK MACKIN

Chairman, President, and Chief Executive Officer

- I, David Ashley Lee, certify that:
- 1. I have reviewed this quarterly report on Form 10-Q of Artivion, 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.

Date: November 4, 2022

/s/ D. ASHLEY LEE

Executive Vice President, and Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Artivion, Inc. (the "Company") on Form 10-Q for the quarter ending September 30, 2022, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of James Patrick Mackin, the Chairman, President, and Chief Executive Officer of the Company, and David Ashley Lee, the Executive Vice President, and Chief Financial Officer of the Company, hereby certifies, pursuant to and for purposes of 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, in his capacity as an officer of the Company and to his knowledge:

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

/s/ J. PATRICK MACKIN
J. PATRICK MACKIN
Chairman, President, and
Chief Executive Officer
November 4, 2022

/s/ D. ASHLEY LEE
D. ASHLEY LEE

Executive Vice President, and Chief Financial Officer November 4, 2022