# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM 10-Q**

(Mark One) 

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

For the quarterly period ended September 30, 2023

OR

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

# **Lantern Pharma Inc.**

(Exact name of registrant as specified in its charter)

Delaware	001-39318	46-3973463
(State or Other Jurisdiction	(Commission	(IRS Employer
of Incorporation)	File Number)	Identification No.)
1920 McKinney Avenue, 7th Floor	Dellas Tayas	75201
(Address of Principal Executiv	e Offices)	(Zip Code)
	(972) 277-1136 ( <b>Registrant's telephone number, inclu</b>	ding area code)
Securities registered pursuant to Section 12(b) of the	Act: Common Stock	
Title of each class	Trading Symbol	Name of each exchange on which registered
Common Stock, \$0.0001 par value	LTRN	The Nasdaq Stock Market
(§232.405 of this chapter) during the preceding 12 mc Indicate by check mark whether the registrant is a 1	onths (or for such shorter period that the registrate arge accelerated filer, an accelerated filer, a	ta File required to be submitted pursuant to Rule 405 of Regulation S-T ant was required to submit such files). Yes ⊠ No □  non-accelerated filer, a smaller reporting company, or an emerging growth bany," and "emerging growth company" in Rule 12b-2 of the Exchange Act.
Large accelerated filer	□ Accelerated	filer
		orting company 🗵
Emerging growth company	3	
If an emerging growth company, indicate by check m accounting standards provided pursuant to Section 13	2	extended transition period for complying with any new or revised financial
Indicate by check mark whether the registrant is a she	ll company (as defined in Rule 12b-2 of the Ex	change Act). Yes □ No ⊠
As of November 3, 2023 the registrant had 10,869,04	0 shares of common stock, \$0.0001 par value p	er share outstanding.

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#### FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements that involve substantial risks and uncertainties. We make such forward-looking statements pursuant to the safe harbor provisions of the U.S. Private Securities Litigation Reform Act, Section 21E of the Securities Exchange Act of 1934, as amended, and other federal securities laws. All statements, other than statements of historical fact, contained in this Quarterly Report on Form 10-Q, including statements regarding our strategy, future preclinical studies and clinical trials, future financial position, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words "anticipate," "believe," "contemplate," "could," "estimate," "expect," "intend," "seek," "may," "might," "plan," "potential," "predict," "project," "target," "objective", "aim," "upcoming", "should," will" "would," or the negative of these words or other similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these words. Forward-looking statements reflect our current views with respect to future events and are based on assumptions and subject to risks and uncertainties.

The forward-looking statements in this Quarterly Report on Form 10-Q include, among other things, statements relating to:

- the potential advantages of our RADR<sup>®</sup> platform in identifying drug candidates and patient populations that are likely to respond to a drug candidate;
- our strategic plans to advance the development of any of our drug candidates;
- our strategic plans to expand the number of data points that our RADR<sup>®</sup> platform can access and analyze;
- our research and development efforts of our internal drug discovery programs and the utilization of our RADR<sup>®</sup> platform to streamline the drug development process;
- the initiation, timing, progress, and results of our preclinical studies or clinical trials for any of our drug candidates;
- our intention to leverage artificial intelligence, machine learning and biomarker data to streamline the drug development process and to identify patient populations that would likely respond to a drug candidate;
- our plans to discover and develop drug candidates and to maximize their commercial potential by advancing such drug candidates ourselves or in collaboration with others;
- our expectations regarding our ability to fund our operating expenses and capital expenditure requirements with our existing cash and cash equivalents;
- our ability to secure sufficient funding and alternative sources of funding to support our existing and proposed preclinical studies and clinical trials;
- our estimates regarding the potential market opportunity for our drug candidates we or any of our collaborators may in the future develop;
- our anticipated growth strategies and our ability to manage the expansion of our business operations effectively;
- our expectations related to future expenses and expenditures;
- our ability to keep up with rapidly changing technologies and evolving industry standards, including our ability to achieve technological advances;
- the potential impact that the continuance or resurgence of the COVID-19 pandemic (or another epidemic or infectious disease outbreak) or its impact on the overall economy may have on our business plans;
- · our ability to source our needs for skilled labor in the fields of artificial intelligence, genomics, biology, oncology and drug development; and
- the impact of government laws and regulations on the development and commercialization of our drug candidates.

We may not actually achieve the plans, intentions, or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions, and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this Quarterly Report on Form 10-Q and in the Risk Factors section of our Annual Report on Form 10-K ("2022 Form 10-K"), for the year ended December 31, 2022 filed with the Securities and Exchange Commission, or the SEC, on March 20, 2023, and have identified other factors such as the results of our clinical trials, and the impact of competition, that we believe could cause actual results or events to differ materially from the forward-statements that we make. Furthermore, we operate in a competitive and rapidly changing environment. New risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this Quarterly Report on Form 10-Q.

You should read this Quarterly Report on Form 10-Q and the documents that we file with the SEC with the understanding that our actual future results may be materially different from what we expect. These forward-looking statements are based on management's current expectations. These statements are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed elsewhere in this Quarterly Report on Form 10-Q and those listed under the Risk Factors section of our 2022 Form 10-K. You may access our 2022 Form 10-K under the investor SEC filings tab of our website at www.lanternpharma.com or on the SEC's website at www.sec.gov. Given these uncertainties, you should not rely on these forward-looking statements as predictions of future events. The forward-looking statements contained in this Quarterly Report on Form 10-Q are made as of the date of this Quarterly Report, and we do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this Quarterly Report on Form 10-Q, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete. Our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and investors are cautioned not to unduly rely upon these statements.

Unless the context requires otherwise, references to the "Company," "Lantern," "we," "us," and "our" in this Quarterly Report on Form 10-Q refer to Lantern Pharma Inc., a Delaware corporation, and, where appropriate, its wholly-owned subsidiaries.

# PART I – FINANCIAL INFORMATION

# Item 1. Financial Statements.

# Lantern Pharma Inc. and Subsidiaries Condensed Consolidated Balance Sheets

		ember 30, 2023 Unaudited)	December 31, 2022		
CURRENT ASSETS	,	Chaudicu			
Cash and cash equivalents	\$	25,571,728	\$	37,201,786	
Restricted cash		-		541,180	
Marketable securities		19,353,852		17,994,299	
Prepaid expenses and other current assets		2,500,401		2,985,472	
Total current assets		47,425,981		58,722,737	
Property and equipment, net		51,021		48,008	
Operating lease right-of-use assets		268,637		47,687	
Other assets		25,869	_	17,889	
TOTAL ASSETS	\$	47,771,508	\$	58,836,321	
CURRENT LIABILITIES					
Accounts payable and accrued expenses	\$	2,085,299	\$	2,745,407	
Operating lease liabilities, current		168,013		52,890	
Total current liabilities		2,253,312		2,798,297	
Operating lease liabilities, net of current portion		106,516		<u>-</u>	
TOTAL LIABILITIES		2,359,828		2,798,297	
COMMITMENTS AND CONTINGENCIES (NOTE 4)					
STOCKHOLDERS' EQUITY					
Preferred Stock (1,000,000 authorized at September 30, 2023 and December 31, 2022; \$.0001 par value) (Zero shares issued and outstanding at September 30, 2023 and December 31, 2022)		-		_	
Common Stock (25,000,000 authorized at September 30, 2023 and December 31, 2022; \$.0001 par value) (10,869,040 shares and 10,857,040 shares issued and outstanding at September 30, 2023 and December 31,					
2022, respectively)		1,087		1,086	
Additional paid-in capital		96,607,868		95,691,194	
Accumulated other comprehensive loss		(138,792)		(371,386)	
Accumulated deficit		(51,058,483)		(39,282,870)	
Total stockholders' equity		45,411,680		56,038,024	
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$	47,771,508	\$	58,836,321	

See accompanying Notes to Condensed Consolidated Financial Statements

# Lantern Pharma Inc. and Subsidiaries Condensed Consolidated Statements of Operations (Unaudited)

	Three Months Ended September 30,			Nine Months End September 30				
	2023		2022		2023		2022	
\$	1,313,727	\$	1,442,961	\$	4,679,128	\$	4,255,119	
	2,209,894		702,296		8,321,058		6,351,356	
	3,523,621		2,145,257		13,000,186		10,606,475	
	(3,523,621)		(2,145,257)		(13,000,186)		(10,606,475)	
	246,394		52,224		497,999		129,671	
_	115,777	_	(171,648)	_	726,574	_	(402,037)	
\$	(3,161,450)	\$	(2,264,681)	\$	(11,775,613)	\$	(10,878,841)	
\$	(0.29)	\$	(0.21)	\$	(1.08)	\$	(1.00)	
	10,857,366		10,838,888		10,857,150		10,848,402	
	\$	\$ 1,313,727 2,209,894 3,523,621 (3,523,621) 246,394 115,777 \$ (3,161,450) \$ (0.29)	\$ 1,313,727 \$ 2,209,894 3,523,621 (3,523,621) 246,394 115,777 \$ (3,161,450) \$ \$ (0.29) \$	September 30,       2023     2022       \$ 1,313,727     \$ 1,442,961       2,209,894     702,296       3,523,621     2,145,257       (3,523,621)     (2,145,257)       246,394     52,224       115,777     (171,648)       \$ (3,161,450)     \$ (2,264,681)       \$ (0.29)     \$ (0.21)	September 30,       2023     2022       \$ 1,313,727     \$ 1,442,961     \$ 2,209,894     702,296       3,523,621     2,145,257     (2,145,257)       246,394     52,224     115,777     (171,648)       \$ (3,161,450)     \$ (2,264,681)     \$       \$ (0.29)     \$ (0.21)     \$	September 30,         Septembe	September 30,         September 3           2023         2022         2023           \$ 1,313,727         \$ 1,442,961         \$ 4,679,128         \$ 2,209,894         702,296         8,321,058           3,523,621         2,145,257         13,000,186         3,523,621         (2,145,257)         (13,000,186)         4,97,999           246,394         52,224         497,999         497,999         115,777         (171,648)         726,574           \$ (3,161,450)         \$ (2,264,681)         \$ (11,775,613)         \$           \$ (0.29)         \$ (0.21)         \$ (1.08)         \$	

# Lantern Pharma Inc. and Subsidiaries Condensed Consolidated Statements of Comprehensive Loss (Unaudited)

		Three Months Ended September 30,				Nine Months Ended September 30,		
	_	2023	_	2022	_	2023	_	2022
NET LOSS	\$	(3,161,450)	\$	(2,264,681)	\$	(11,775,613)	\$	(10,878,841)
Other comprehensive income (loss)								
Unrealized gain (loss) on available-for-sale securities		81,004		(118,572)		165,540		(394,843)
Unrealized gain on foreign currency translation		42,041		32,018		67,054		52,497
Other comprehensive income (loss)		123,045		(86,554)		232,594		(342,346)
Comprehensive loss	\$	(3,038,405)	\$	(2,351,235)	\$	(11,543,019)	\$	(11,221,187)

See accompanying Notes to Condensed Consolidated Financial Statements

# Lantern Pharma Inc. and Subsidiaries Condensed Consolidated Statements of Stockholders' Equity (Unaudited)

Accumulated

Common

Preferred

	Stock	Preferred	Stock	Common	Additional	Other		Total
	Number	Stock	Number of	Stock	Paid-in-	Comprehensive	Accumulated	Stockholders'
	of Shares	Amount	Shares	Amount	Capital	Loss	Deficit	Equity
		Three an	d Nine Months	Ended Septen	ıber 30, 2022			
Balance, December 31, 2021	-	\$ -	11,088,835	\$ 1,109	\$96,685,924	\$ (92,689)	\$ (25,022,924)	\$ 71,571,420
Common stock issued from warrant								
and option exercises	-	-	95,779	10	299,778	-	-	299,788
Stock-based compensation	-	-	(2.52.665)	-	267,004	-	-	267,004
Share repurchases	-	-	(353,667)	(36)	(2,482,250)	-	(4.101.774)	(2,482,286)
Net loss	-	-	-	-	-	-	(4,121,774)	(4,121,774)
Other comprehensive loss						(218,780)		(218,780)
Balance, March 31, 2022			10,830,947	1,083	94,770,456	(311,469)	(29,144,698)	65,315,372
Stock-based compensation	-	-	-	-	289,533	-	-	289,533
Net loss	-	-	-	-	· -	-	(4,492,386)	(4,492,386)
Other comprehensive loss	-	-	-	-	-	(37,012)		(37,012)
Balance, June 30, 2022			10,830,947	1,083	\$95,059,989	(348,481)	(33,637,084)	61,075,507
			.,,.	,	, , ,	(, )	(-1,11-1,11-)	. ,,.
Common stock issued from option			26,002	2	(2)			
exercises	-	-	26,093	3	(3) 301,113	-	-	201 112
Stock-based compensation Net loss	-	-	-	-	301,113	-	(2,264,681)	301,113 (2,264,681)
Other comprehensive loss	<del>-</del>	<del>-</del>	-	-	<del>-</del>	(86,554)	(2,204,001)	(86,554)
Balance, September 30, 2022		-	10.857.040	¢ 1,000	0.5.2(1.000		£ (25 001 7(5)	
Balance, September 30, 2022		\$ -	10,857,040	\$ 1,086	\$95,361,099	\$ (435,035)	\$ (35,901,765)	\$ 59,025,385
	D C 1							
	Preferred							
	Stool		Common			Aggumulated		
	Stock Number	Preferred	Common Stock	Common	Additional	Accumulated Other		Total
	Number	Preferred Stock	Stock	Common Stock	Additional Paid-in-	Other	Accumulated	Total Stockholders'
	Number of	Stock	Stock Number of	Stock	Paid-in-	Other Comprehensive	Accumulated Deficit	Stockholders'
	Number	Stock Amount	Stock Number of Shares	Stock Amount	Paid-in- Capital	Other	Accumulated Deficit	
Ralance December 31, 2022	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months	Stock <u>Amount</u> Ended Septen	Paid-in- Capital iber 30, 2023	Other Comprehensive Loss	Deficit	Stockholders' Equity
Balance, December 31, 2022 Stock-based compensation	Number of	Stock Amount	Stock Number of Shares	Stock Amount	Paid-in- Capital iber 30, 2023 \$95,691,194	Other Comprehensive		Stockholders' Equity  \$ 56,038,024
Stock-based compensation	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months	Stock <u>Amount</u> Ended Septen	Paid-in- Capital iber 30, 2023	Other Comprehensive Loss	Deficit \$ (39,282,870)	<b>Stockholders' Equity</b> \$ 56,038,024 333,530
Stock-based compensation Net loss	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months	Stock <u>Amount</u> Ended Septen	Paid-in- Capital iber 30, 2023 \$95,691,194	Other Comprehensive Loss \$ (371,386)	Deficit	\$ 56,038,024 333,530 (3,867,765)
Stock-based compensation Net loss Other comprehensive gain	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital nber 30, 2023 \$95,691,194 333,530	Other Comprehensive Loss  \$ (371,386)	Deficit \$ (39,282,870) - (3,867,765)	\$ 56,038,024 333,530 (3,867,765) 71,709
Stock-based compensation Net loss	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months	Stock <u>Amount</u> Ended Septen	Paid-in- Capital iber 30, 2023 \$95,691,194	Other Comprehensive Loss \$ (371,386)	Deficit \$ (39,282,870)	\$ 56,038,024 333,530 (3,867,765)
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss  \$ (371,386)	Deficit \$ (39,282,870) - (3,867,765)	\$ 56,038,024 333,530 (3,867,765) 71,709 52,575,498
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023 Stock-based compensation	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital nber 30, 2023 \$95,691,194 333,530	Other Comprehensive Loss  \$ (371,386)	Deficit \$ (39,282,870) - (3,867,765)	\$ 56,038,024 333,530 (3,867,765) 71,709
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss  \$ (371,386)	Deficit \$ (39,282,870) - (3,867,765)	\$ 56,038,024 333,530 (3,867,765) 71,709 52,575,498
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards	Number of	Stock Amount Three an	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss  \$ (371,386)	Deficit  \$ (39,282,870)	\$ 56,038,024 \$ 333,530 \$ (3,867,765) \$ 71,709 \$ 52,575,498
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss \$ (371,386) - - 71,709 (299,677)	Deficit \$ (39,282,870) - (3,867,765)	\$ 56,038,024 333,530 (3,867,765) 71,709 52,575,498 392,390 (4,746,398)
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss  \$ (371,386)	Deficit  \$ (39,282,870)	\$ 56,038,024 \$ 333,530 \$ (3,867,765) \$ 71,709 \$ 52,575,498
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040	Stock Amount Ended Septen \$ 1,086	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530 	Other Comprehensive Loss \$ (371,386) - - 71,709 (299,677)	Deficit  \$ (39,282,870)	\$ 56,038,024 333,530 (3,867,765) 71,709 52,575,498 392,390 (4,746,398)
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss Other comprehensive gain  Balance, June 30, 2023	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040 	Stock Amount Ended Septen \$ 1,086	Paid-in-Capital her 30, 2023 \$ 95,691,194	Other Comprehensive Loss  \$ (371,386)	Deficit  \$ (39,282,870)	\$ 56,038,024 \$ 333,530 \$ (3,867,765) \$ 71,709 \$ 52,575,498  \$ 392,390 \$ (4,746,398) \$ 37,840  \$ 48,259,330
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss Other comprehensive gain  Balance, June 30, 2023  Stock-based compensation	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040 	Stock	Paid-in- Capital her 30, 2023 \$ 95,691,194 333,530  96,024,724 392,390 (1)	Other Comprehensive Loss  \$ (371,386)	\$ (39,282,870) - (3,867,765) - (43,150,635) - (4,746,398) - (47,897,033)	\$ 56,038,024 \$ 333,530 (3,867,765) \$ 71,709 \$ 52,575,498  392,390  (4,746,398) \$ 37,840  48,259,330
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss Other comprehensive gain  Balance, June 30, 2023  Stock-based compensation Net loss	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040 	Stock	Paid-in-Capital her 30, 2023 \$ 95,691,194	Other Comprehensive Loss  \$ (371,386)	Deficit  \$ (39,282,870)	\$ 56,038,024 \$ 333,530 \$ (3,867,765) \$ 71,709 \$ 52,575,498   392,390  (4,746,398) \$ 37,840  48,259,330  190,755 \$ (3,161,450)
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss Other comprehensive gain  Balance, June 30, 2023  Stock-based compensation	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040 	Stock	Paid-in-Capital her 30, 2023 \$ 95,691,194	Other Comprehensive Loss  \$ (371,386)	\$ (39,282,870) - (3,867,765) - (43,150,635) - (4,746,398) - (47,897,033)	\$ 56,038,024 \$ 333,530 (3,867,765) \$ 71,709 \$ 52,575,498  392,390  (4,746,398) \$ 37,840  48,259,330
Stock-based compensation Net loss Other comprehensive gain Balance, March 31, 2023  Stock-based compensation Issuance of restricted common stock awards Net loss Other comprehensive gain  Balance, June 30, 2023  Stock-based compensation Net loss	Number of	Stock Amount Three an \$	Stock Number of Shares ad Nine Months 10,857,040 	Stock	Paid-in-Capital her 30, 2023 \$ 95,691,194	Other Comprehensive Loss  \$ (371,386)	\$ (39,282,870) - (3,867,765) - (43,150,635) - (4,746,398) - (47,897,033)	\$ 56,038,024 \$ 333,530 \$ (3,867,765) \$ 71,709 \$ 52,575,498   392,390  (4,746,398) \$ 37,840  48,259,330  190,755 \$ (3,161,450)

See accompanying Notes to Condensed Consolidated Financial Statements

# Lantern Pharma Inc. and Subsidiaries Condensed Consolidated Statements of Cash Flows (Unaudited)

Nine Months Ended September 30,

	September 30,			,
		2023		2022
CASH FLOWS FROM OPERATING ACTIVITIES				
Net loss	\$	(11,775,613)	\$	(10,878,841)
Adjustments to reconcile net loss to cash used in operating activities:				
Depreciation and amortization		10,640		7,321
Non-cash lease adjustments		119,886		108,451
Stock-based compensation		916,675		857,650
Amortization (accretion) of investment premiums (discount)		(115,395)		87,211
Foreign currency remeasurement loss		129,686		158,703
Realized loss on redemptions of marketable securities		76,820		76,326
Unrealized loss on investment securities		17,300		476,751
Changes in assets and liabilities:				
Prepaid expenses and other current assets		442,076		(1,759,848)
Accounts payable and accrued expenses		(656,096)		885,998
Operating lease liabilities		(119,197)		(118,351)
Other assets		(7,980)		_
Net cash flows used in operating activities		(10,961,198)		(10,098,629)
INVESTING ACTIVITIES				
Purchase of property and equipment		(13,653)		(20,889)
Purchases of marketable securities		(6,640,738)		(3,322,386)
Redemptions of marketable securities		5,468,000		2,919,682
Net cash flows used in investing activities		(1,186,391)		(423,593)
FINANCING ACTIVITIES				
Repurchase of shares including commissions		-		(2,482,286)
Proceeds from stock option and warrant exercises		_		299,788
Net cash flows used in financing activities				(2,182,498)
Tel cash now ased in financing activities	_		_	(2,102,470)
Effect of foreign exchange rates on cash		(23,649)		(20,508)
CHANGE IN CASH, CASH EQUIVALENTS, AND RESTRICTED CASH FOR THE PERIOD		(12,171,238)		(12,725,228)
CASH, CASH EQUIVALENTS AND RESTRICTED CASH, BEGINNING OF PERIOD		37,742,966		52,524,295
Choir, Choir Equivalents has recited choir, beditting of Teldob		37,742,900		32,324,293
CASH, CASH EQUIVALENTS AND RESTRICTED CASH, END OF PERIOD	\$	25,571,728	\$	39,799,067
RECONCILIATION OF CASH, CASH EQUIVALENTS AND RESTRICTED CASH TO THE CONSOLIDATED				
BALANCE SHEETS:				
Cash and cash equivalents	\$	25,571,728	\$	39,257,887
Restricted cash	Ф	23,371,726	Ф	541,180
	Φ.	25 571 720	Φ.	
CASH, CASH EQUIVALENTS AND RESTRICTED CASH	\$	25,571,728	\$	39,799,067
Non-cash investing and financing activities				
Operating lease right-of-use asset acquired through operating lease liability	\$	141,989	\$	-
Operating lease right-or-use asset acquired through operating lease hability		<i>y</i>		
Remeasurement of operating lease right-of-use asset and operating lease liability		198,847		-

#### NOTES TO FINANCIAL STATEMENTS

#### Note 1. Organization, Principal Activities, and Basis of Presentation

Lantern Pharma Inc., and Subsidiaries (the "Company") is a clinical stage biopharmaceutical company, focused on leveraging artificial intelligence ("A.I."), machine learning and biomarker data to streamline the drug development process and to identify the patients that will benefit from its targeted oncology therapies. The Company's portfolio of therapies consists of small molecule drug candidates that others have tried, but failed, to develop into an approved commercialized drug, as well as new compounds that it is developing with the assistance of its A.I. platform and its biomarker driven approach. The Company's A.I. platform, known as RADR<sup>®</sup>, uses big data analytics (combining molecular data, drug efficacy data, data from historical studies, data from scientific literature, phenotypic data from trials and publications, and mechanistic pathway data) and machine learning. The Company's data-driven, genomically-targeted and biomarker-driven approach allows it to pursue a transformational drug development strategy that identifies, rescues or develops, and advances potential small molecule drug candidates.

Lantern Pharma Inc. was incorporated under the laws of the state of Texas on November 7, 2013, and thereafter reincorporated in the state of Delaware on January 15, 2020. The Company's principal operations are located in Texas. The Company formed a wholly owned subsidiary, Lantern Pharma Limited, in the United Kingdom in July 2017 and a wholly owned subsidiary, Lantern Pharma Australia Pty Ltd, in Australia in September 2021. In January 2023, the Company formed a wholly owned subsidiary, Starlight Therapeutics Inc. ("Starlight"), to continue with advancing the development of drug candidate LP-184's central nervous system (CNS) and brain cancer indications.

Since inception, the Company has devoted substantially all its activity to advancing research and development, including efforts in connection with preclinical studies, clinical trials and development of its RADR® platform. This now includes three lead drug candidates and an Antibody Drug Conjugate (ADC) program directed towards eleven disclosed therapeutic targets:

- LP-300 (Tavocept), which we are currently advancing in a Phase II clinical trial, the Harmonic<sup>TM</sup> trial, focused on never smokers with advanced non-small cell lung cancer;
- LP-184, which we are advancing in a recently launched phase I clinical trial, and has potential for treatment of solid tumors including pancreatic, breast, bladder, and lung cancers, and glioblastoma and other CNS cancers. Following the formation of Starlight, the Company now refers to the molecule LP-184, as it is developed in CNS indications, as "STAR-001";
- LP-284, the stereoisomer (enantiomer) of LP-184, is advancing in a recently launched phase I clinical trial, and has shown promising *in-vitro* and *in vivo* anticancer activity in multiple hematological cancers, which are distinct from the indications targeted by LP-184; and
- Our ADC program is aimed at identifying targeted or therapeutic antibodies to conjugate with selected compounds.

The Company's fiscal year ends on December 31 of each calendar year. The accompanying interim condensed consolidated financial statements are unaudited and have been prepared on substantially the same basis as the Company's annual consolidated financial statements for the fiscal year ended December 31, 2022. In the opinion of the Company's management, these interim condensed consolidated financial statements reflect all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair statement of the Company's financial position, results of operations and cash flows for the periods presented. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America ("GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of expenses during the reporting periods. Actual results could differ from these estimates.

The December 31, 2022 year-end condensed consolidated balance sheet data in the accompanying interim condensed consolidated financial statements was derived from audited consolidated financial statements. These condensed consolidated financial statements and notes do not include all disclosures required by U.S. generally accepted accounting principles and should be read in conjunction with the Company's audited consolidated financial statements as of and for the year ended December 31, 2022 and the notes thereto included in the Company's Annual Report on Form 10-K, dated March 20, 2023, on file with the Securities and Exchange Commission.

The results of operations and cash flows for the interim periods included in these condensed consolidated financial statements are not necessarily indicative of the results to be expected for any future period or the entire fiscal year.

Any reference in these notes to applicable guidance refers to Accounting Standards Codification ("ASC") and Accounting Standards Update ("ASU") of the Financial Accounting Standards Board ("FASB"). To date, the Company has operated its business as one segment. The Company's condensed consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries, Lantern Pharma Limited, Lantern Pharma Australia Pty Ltd. and Starlight Therapeutics Inc. All intercompany balances and transactions have been eliminated in consolidation.

#### Note 2. Liquidity

The Company incurred a net loss of approximately \$11,776,000 and \$10,879,000 during the nine months ended September 30, 2023 and 2022, respectively. As of September 30, 2023, the Company had working capital of approximately \$45,173,000. The Company has received funding in the form of periodic capital raises and also plans to apply for grant funding in the future to assist in supporting its capital needs. We may also explore the possibility of entering into commercial credit facilities as an additional source of liquidity. We believe that our existing cash and cash equivalents as of September 30, 2023, and our anticipated expenditures and capital commitments, will enable us to fund our operating expenses and capital expenditure requirements for at least 12 months from the date of this quarterly report.

#### Note 3. Summary of Significant Accounting Policies

### **Use of Estimates and Assumptions**

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The significant areas of estimation include determining research and development accruals, the inputs in determining the fair value of equity-based awards and warrants issued, the inputs in determining present value of lease payments, and determining the fair value of marketable securities. Actual results could differ from those estimates.

# **Risks and Uncertainties**

The Company operates in an industry that is subject to intense competition, government regulation and rapid technological change. Operations are subject to significant risk and uncertainties including financial, operational, technological, regulatory, and other risks, including the potential risk of business failure.

Our marketable securities have had and may in the future have their market value fluctuate due to rises or falls in interest rates. While we believe our cash, cash equivalents and marketable securities do not contain excessive risk, we cannot provide absolute assurance that in the future our investments will not be subject to adverse changes in market value. In addition, we maintain significant amounts of cash and cash equivalents at one or more financial institutions that are federally insured. Interest bearing and non-interest bearing accounts we hold at these banking institutions are guaranteed by the Federal Deposit Insurance Corporation ("FDIC") up to \$250,000 per depositor, per FDIC-insured bank, per ownership category. Substantially all of our cash balances held at banking institutions at September 30, 2023 are in excess of FDIC coverage.

#### **Research and Development**

Research and development costs are expensed as incurred. These expenses primarily consist of payroll, contractor expenses, research study expenses, costs for manufacturing and supplies, clinical site costs and other costs for the conduct of clinical trials, and technical infrastructure on the cloud for the purposes of developing the Company's RADR® platform and identifying, developing, and testing drug candidates. Development costs incurred by third parties are expensed as the work is performed. Costs to acquire technologies, including licenses, that are utilized in research and development and that have no alternative future use are expensed when incurred.

#### Cash and Cash Equivalents

The Company considers money market funds and other highly liquid instruments with a short-term maturity of 3 months or less to be cash equivalents. Cash equivalents at September 30, 2023 and December 31, 2022 were approximately \$24,281,000 and \$1,271,000, respectively, and are included along with cash under the caption cash and cash equivalents on the Company's consolidated balance sheets.

#### **Restricted Cash**

The Company considers cash held in escrow for the purposes of contractual contingencies to be restricted cash. All of the restricted cash at December 31, 2022 relates to escrow amounts paid in connection with the Asset Purchase Agreement entered into by the Company and Allarity Therapeutics in July 2021 (See Note 4). The escrow period under the Asset Purchase Agreement ended in July 2023, and the remaining escrow funds were distributed from escrow to the Company in August 2023.

#### Leases

The Company determines whether an arrangement contains a lease at inception. Operating leases are included in operating lease right-of-use ("ROU") assets, current portion of operating lease liabilities, and net of current portion of operating lease liabilities on our consolidated balance sheets. ROU assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent an obligation to make lease payments arising from the lease. Lease ROU assets and lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term at the commencement date. As the Company's leases do not provide an implicit rate, an incremental borrowing rate is used based on the information available at the commencement date in determining the present value of lease payments. The Company does not include options to extend or terminate the lease term unless it is reasonably certain that the Company will exercise any such options. Rent expense is recognized under the operating leases on a straight-line basis. The Company does not recognize right-of-use assets or lease liabilities for short-term leases, which have a lease term of twelve months or less, and instead will recognize lease payments as expense on a straight-line basis over the lease term.

#### **Marketable Securities**

The Company's marketable securities consist of government and agency securities, corporate bonds, and mutual funds. We classify our marketable securities as available-for-sale at the time of purchase and reevaluate such classification as of each balance sheet date. We may sell these securities at any time for use in current operations even if they have not yet reached maturity. As a result, we classify our investments, including securities with maturities beyond twelve months, as current assets in the accompanying condensed consolidated balance sheets. Available-for-sale debt securities are recorded at fair value each reporting period. Unrealized gains and losses are excluded from earnings and recorded as a separate component within "Accumulated other comprehensive income" or "Accumulated other comprehensive loss" on the condensed consolidated balance sheets until realized. Interest is reported within "Interest income" and dividend income is reported within "Other income (expense), net" on the condensed consolidated statements of operations. We evaluate our investments to assess whether the amortized cost basis is in excess of estimated fair value and determine what amount of that difference, if any, is caused by expected credit losses. Allowance for credit losses are recognized as a charge in "Other income (expense), net" on the condensed consolidated statements of operations, and any remaining unrealized losses are included in "Accumulated other comprehensive loss" on the condensed consolidated balance sheets. There were no credit losses recorded for the three and nine months ended September 30, 2023 and 2022. We determine realized gains and losses on the sale of marketable securities based on the specific identification method and record such gains and losses in "Other income (expense), net" on the condensed consolidated statements of operations.

#### **Recent Accounting Pronouncements**

The Company believes that the impact of recently issued standards that are not yet effective will not have a material impact on its financial position or results of operations upon adoption.

#### **Recently Adopted Accounting Standard**

Current Expected Credit Loss

In June 2016 the FASB issued Accounting Standard Update ("ASU") 2016-13, Measurement of Credit Losses on Financial Instruments (Topic 326). This introduces new methodology for recognition of credit losses - the current expected credit loss ("CECL") method. The CECL method requires the recognition of all losses expected over the life of a financial instrument upon origination or purchase of the instrument, unless the company elects to recognize such instruments at fair value with changes in profit and loss. CECL was adopted on January 1, 2023 and had no impact on the Company's condensed consolidated financial statements.

#### Note 4. Commitments and Contingencies

#### General

The Company has entered into, and expects to enter into from time to time in the future, license agreements, strategic alliance agreements, assignment agreements, research service agreements, and similar agreements related to the advancement of its product candidates and research and development efforts. Significant agreements (collectively, the "License, Strategic Alliance, and Research Agreements") are described in detail in the Company's 2022 Form 10-K. While specific amounts will fluctuate from quarter to quarter based on clinical trials progress, advancement and completion of research studies and manufacturing projects, and other factors, the Company believes its overall activities regarding License, Strategic Alliance, and Research Agreements are materially consistent with those described in the 2022 Form 10-K, as supplemented by the discussion in the following paragraph.

In May 2023, the Company entered into initial agreements with Fortrea Inc. ("Fortrea") to begin serving as the lead contract research organization (CRO) for the Company's Phase 2 clinical trial for LP-300 and the Company's Phase 1 clinical trial for LP-184. In July 2023, the Company entered into a clinical master services agreement and work orders with Fortrea regarding additional CRO services to be provided by Fortrea relating to the LP-300 Phase 2 trial and the LP-184 Phase 1 trial. The Company expects to make substantial payments for services to be provided over the next 18 to 24 months in connection with services provided by Fortrea as well as clinical trial site and other pass-through costs relating to the LP-300 Phase 2 trial and the LP-184 Phase 1 trial.

Amounts expensed with respect to Fortrea during the three and nine months ended September 30, 2023, as well as accrued and payable amounts and prepaid expense amounts with respect to Fortrea at September 30, 2023, are included in the tables below relating to License, Strategic Alliance, and Research Agreements. In addition to the agreements with Fortrea and the specific agreements described in the 2022 Form 10-K, the Company has entered into, and will in the future enter into, other research and service provider agreements for the advancement of its product candidates and research and development efforts. The Company expects to pay additional amounts in future periods in connection with existing and future research and service provider agreements.

Set forth below are the approximate amounts expensed for License, Strategic Alliance, and Research Agreements during the three and nine months ended September 30, 2023 and 2022, respectively. These expensed amounts are included under research and development expenses in the accompanying condensed consolidated statements of operations.

		Three Months Ended September 30,			Nine Months Ended			
					September 30,			,
		2023		2022		2023		2022
Amount Expensed for License, Strategic Alliance, and Research								
Agreements	\$	669,000	\$	(25,000)*	\$	4,017,000	\$	3,764,000*

<sup>\*</sup> Amounts expensed for License, Strategic Alliance, and Research Agreements during the three and nine months ended September 30, 2022 were reduced by \$935,000 as a result of a payment we received in July 2022 from one of our service providers in connection with the resolution of a difference of views regarding the service provider agreement. This payment received by us offset other expenses for License, Strategic Alliance, and Research Agreements during these periods.

Set forth below at September 30, 2023 and December 31, 2022, respectively, are (1) the approximate amounts accrued and payable under License, Strategic Alliance, and Research Agreements, and (2) the approximate amount of prepaid expenses and other current assets under License, Strategic Alliance, and Research Agreements. These amounts are included in the accompanying condensed consolidated balance sheets.

	Sept	tember 30, 2023	December 31, 2022		
Amount accrued and payable under License, Strategic Alliance, and Research Agreements	\$	516,000	\$	1,813,000	
Prepaid expenses and other current assets under License, Strategic Alliance, and Research Agreements	\$	797,000	\$	1,595,000	

#### EU Grant

In September 2018, Lantern Pharma Limited, a wholly owned subsidiary of Lantern Pharma Inc., was awarded a grant by the UK government in the form of state aid under the Commission Regulations (EU) No. 651/2014 of 17 June 2014 (the "General Block Exemption"), Article 25 Aid for research and development projects, state aid notification no. SA.40154. The grant was awarded to conduct research and development activities for the prostate cancer biomarker analysis of the LP-184 drug candidate. Following the Company's research and development activities in Northern Ireland, the grant will reimburse the Company 50% of its research and development expenses not exceeding GBP 24,215 of vouched and approved expenditures within specific categories. The grant contains some reporting and consent requirements. The grant will remain in force for a period of five years. No payments to the Company have been made under the grant as of September 30, 2023 and December 31, 2022. No revenue has been recognized from this grant through September 30, 2023.

#### **Actuate Therapeutics**

In May 2021, the Company entered into a Collaboration Agreement with Actuate Therapeutics, Inc. ("Actuate"), a clinical stage private biopharmaceutical company focused on the development of compounds for use in the treatment of cancer, and inflammatory diseases leading to fibrosis. Pursuant to the agreement, the Company and Actuate are collaborating on utilization of the Company's RADR® platform to develop novel biomarker derived signatures for use with one of Actuate's product candidates. As part of the collaboration, the Company received 25,000 restricted shares of Actuate stock, subject to meeting certain conditions of the collaboration, as well as the potential to receive additional Actuate stock if results from the collaboration are utilized in future development efforts. In 2022, the term of the Collaboration Agreement was extended to continue until March 31, 2023. The term of the Collaboration Agreement was recently extended until March 31, 2024. Leslie W. Kreis, Jr., a director of the Company until June 8, 2022, is also a director of Actuate. Certain affiliates of Bios Partners beneficially own greater than 10% of the Company's common stock and also hold substantial beneficial ownership interests in Actuate. Through September 30, 2023, no revenues have been recognized under the Collaboration Agreement.

The restricted shares of Actuate stock had a nominal value when acquired and, therefore, were recorded at a cost of \$0. These shares do not have a readily determinable fair value, but will be adjusted for observable price changes, if any, in future periods. There were no adjustments to the carrying amount through September 30, 2023.

#### Note 5. Leases

Operating lease liabilities, net of current portion

The following provides balance sheet information related to leases as of September 30, 2023 and December 31, 2022:

	Sept	September 30, 2023		ember 31, 2022
Assets				
Operating lease, right-of-use asset, net	\$	268,637	\$	47,687
Liabilities	·			
Current portion of operating lease liabilities	\$	168,013	\$	52,890
Operating lease liabilities, net of current portion		106,516		<u>-</u>
Total operating lease liabilities	\$	274,529	\$	52,890
At September 30, 2023, the future estimated minimum lease payments under non-cancelable operating l	eases are as follow	s:	0	44.067
2023 (remaining three months)			\$	44,867
2024 2025				184,532
				62,448
Total minimum lease payments				291,847
Less amount representing interest				17,318
Present value of future minimum lease payments				274,529
Less current portion of operating lease liabilities				168,013

In April 2021, the Company entered into two operating leases for office space that commenced in May 2021. The lease terms were set to expire in April 2023, subject to automatic renewal on a month-to-month basis unless the Company provided three-months written notice to the landlord prior to initial expiration. In January 2023, the Company renewed one of the operating leases for an additional two years and notified the landlord of its intent not to renew the other lease. In January 2023, the Company also entered into two new leases that commenced in March 2023 and May 2023, respectively, and continue through April 2025. The new leases also renew automatically on a month-to-month basis unless the Company provides three-months written notice to the landlord prior to initial expiration. The exercise of lease renewal options is at our sole discretion and is assessed as to whether to include any renewals in the lease term at inception.

106,516

The following table provides a reconciliation for our operating right-of-use assets and operating lease liabilities:

	Operating Right-of- Use Assets			Operating Lease
				Liabilities
Balance at December 31, 2022	\$	47,687	\$	52,890
Remeasurement of operating lease right-of-use assets and operating lease liability		198,847		198,847
Operating right-of-use asset acquired through operating lease liability		141,989		141,989
Amortizations and reductions		(119,886)		(119,197)
Balance at September 30, 2023	\$	268,637	\$	274,529

Other supplemental information related to operating leases is as follows:

	As of Septe	mber 30,
	2023	2022
Weighted average remaining term of operating leases (in years)	1.58	0.58
Weighted average discount rate of operating leases	7.36%	4.65%

The Company also leased office space in Dallas, Texas under month-to-month lease arrangements during the nine months ended September 30, 2023 and 2022. In April 2023, the Company entered into a two-year lease for material storage and handling. The lease is cancellable with 45-days' written notice. Under these short-term leases, the Company elected the short-term lease measurement and recognition exemption under ASC 842 and recorded rent expense as incurred.

The components of lease expense were approximately as follows for the three and nine months ended September 30, 2023 and 2022:

		Three Moi Septem	nths Endo	ed	Nine Months Ended September 30,			
		2023		2022		2023		2022
Operating lease cost	\$	45,000	\$	30,000	\$	154,000	\$	108,000
Short-term lease cost		4,000		-		9,000		-
	\$	49,000	\$	30,000	\$	163,000	\$	108,000
	1	2						

#### Note 6. Stockholders' Equity

#### Common Stock

In November 2021, the Company's Board of Directors authorized a share repurchase program to acquire up to \$7,000,000 of the Company's common stock. During the three and nine months ended September 30, 2022, the Company repurchased zero and 353,667 shares of common stock, respectively, pursuant to the repurchase program for a total of approximately \$2,482,000, including purchase fees. The share repurchase program terminated July 31, 2022.

During the three and nine months ended September 30, 2022, the Company issued 26,093 shares of common stock relating to the cashless exercise of stock options to purchase 32,538 shares of common stock.

During the three and nine months ended September 30, 2022 the Company issued zero and 95,779 shares of common stock, respectively, relating to the cash exercise of warrants for total proceeds of approximately \$300,000. All of such warrants were exercisable at an exercise price of \$3.13 per share of common stock.

During the nine months ended September 30, 2023, the Company issued 12,000 shares of restricted common stock to consultants with a grant date fair value of approximately \$63,000. Half of the shares of restricted stock vested in September 2023, with the remaining 6,000 shares expected to vest in December 2023. During the three and nine months ended September 30, 2023, the Company expensed approximately \$32,000 related to restricted stock, which is included in general and administrative expenses in the accompanying condensed consolidated statements of operations.

As of September 30, 2023 and December 31, 2022, the Company had 25,000,000 authorized shares of Common Stock, of which 10,869,040 shares and 10,857,040 shares were issued and outstanding as of September 30, 2023 and December 31, 2022, respectively.

#### Warrants

During the three and nine months ended September 30, 2022, the Company issued zero and 95,779 shares of common stock, respectively, relating to the cash exercise of warrants that were expiring. During the three and nine months ended September 30, 2023, zero shares were issued relating to the exercise of warrants. The Company had warrants to purchase 177,998 shares of common stock outstanding and exercisable as of September 30, 2023 at a weighted average exercise price of \$9.27 per share, and with expiration dates ranging from March 7, 2024 to June 10, 2025.

#### **Options**

The number of shares available under the Lantern Pharma Inc. 2018 Equity Incentive Plan, as amended and restated (the "Plan"), was increased by 250,000 at the Company's Annual Meeting of Stockholders on June 16, 2023. A summary of stock option activity under the Plan, during the nine months ended September 30, 2023 is presented below:

	Options O	Options Outstanding			
	Number of Shares		ghted- Average ercise Price Per Share		
Outstanding December 31, 2022	1,037,591	\$	6.46		
Granted	86,000		4.70		
Cancelled or expired	(62,883)		8.17		
Outstanding September 30, 2023	1,060,708	\$	6.21		

Options were exercisable for 860,004 shares of Common Stock at September 30, 2023 at a weighted average exercise price of \$6.23.

Stock-based compensation was as follows for the three and nine months ended September 30, 2023 and 2022:

	Three Months Ended September 30,				Nine Months Ended September 30,					
	 2023		2022		2023		2022			
General and administrative	\$ 95,189	\$	160,233	\$	540,260	\$	482,609			
Research and development	95,566		140,880		376,415		375,041			
Total stock-based compensation	\$ 190,755	\$	301,113	\$	916,675	\$	857,650			
	12									

#### Note 7. Marketable Securities

At September 30, 2023, marketable securities consisted of the following:

	1	Amortized Cost		Unrealized Gains	τ	Inrealized Losses	Aggregate Fair Value
Government & Agency Securities	\$	5,222,815	\$	112	\$	(118,462)	\$ 5,104,465
Corporate Bonds		8,919,318		-		(105,431)	8,813,887
Marketable Securities – Debt		14,142,133		112		(223,893)	13,918,352
Mutual Funds – Fixed Income		4,002,704		-		(330,004)	3,672,700
Mutual Funds – Alternative Investments		2,023,154		<u>-</u>		(260,354)	 1,762,800
Marketable Securities – Mutual Funds		6,025,858		-		(590,358)	5,435,500
	\$	20,167,991	\$	112	\$	(814,251)	\$ 19,353,852

The contractual maturities of the investments classified as Government & Agency Securities and Corporate Bonds are as follows:

	As of
	<b>September 30, 2023</b>
Due within one year	\$ 12,160,543
Due in one to two years	1,757,809
	\$ 13,918,352

The following table presents gross unrealized losses and fair values for those marketable securities that were in an unrealized loss position as of September 30, 2023, aggregated by investment category and the length of time that individual securities have been in a continuous loss position:

	<u></u>			As of Septem	ber 30,	2023			
		Less than	12 mon	iths	More than 12 months				
		Fair		Unrealized		Fair	Unrealized		
	<u></u>	Value		Loss		Value		Loss	
Government & Agency Securities	\$	939,777	\$	(1,433)	\$	3,664,908	\$	(117,029)	
Corporate Bonds		4,489,808		(19,502)		4,324,079		(85,929)	
Mutual Funds – Fixed Income		-		-		3,672,700		(330,004)	
Mutual Funds – Alternative Investments		-		-		1,762,800		(260,354)	
	\$	5,429,585	\$	(20,935)	\$	13,424,487	\$	(793,316)	

We do not believe the unrealized losses represent credit losses based on our evaluation of available evidence as of September 30, 2023, which includes an assessment of whether it is more likely than not we will be required to sell the investment before recovery of the investment's amortized cost basis.

#### Note 8. Fair Value Measurements

We determine the fair values of our financial instruments based on the fair value hierarchy, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value assumes that the transaction to sell the asset or transfer the liability occurs in the principal or most advantageous market for the asset or liability and establishes that the fair value of an asset or liability shall be determined based on the assumptions that market participants would use in pricing the asset or liability. The classification of a financial asset or liability within the hierarchy is based upon the lowest level input that is significant to the fair value measurement. The fair value hierarchy prioritizes the inputs into three levels that may be used to measure fair value:

Level 1 - Inputs are unadjusted quoted prices in active markets for identical assets or liabilities.

Level 2 - Inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument.

Level 3 - Inputs are unobservable inputs based on our assumptions.

The fair values of short-term financial instruments (primarily accounts receivable, prepaid expenses, accounts payable, accrued expenses, and other current liabilities) approximate their carrying values because of their short-term nature.

#### Financial Assets

When available, our marketable securities are valued using quoted prices for identical instruments in active markets. If we are unable to value our marketable securities using quoted prices for identical instruments in active markets, we value our investments using broker reports that utilize quoted market prices for comparable instruments. As of September 30, 2023 our available-for-sale debt securities were valued through use of quoted prices for comparable instruments in active markets and are classified as Level 2, and our mutual funds – alternative investments were valued using NAV, net asset value per share, under the practical expedient methodology.

Based on our valuation of our marketable securities, we concluded that they are classified in either Level 1, Level 2 or NAV, and we have no financial assets measured using Level 3 inputs. The following table presents information about our assets that are measured at fair value on a recurring basis using the above input categories.

	 Fair Value Measurements as of September 30, 2023								
Description	Total		Level 1		Level 2		Level 3		NAV*
Government & Agency Securities	\$ 5,104,465	\$	-	\$	5,104,465	\$	-	\$	-
Corporate Bonds	8,813,887		=		8,813,887		-		-
Money Markets	10,120,860		10,120,860		-		-		-
Mutual Funds – Fixed Income	3,672,700		-		3,672,700		-		-
Mutual Funds – Alternative Investments	1,762,800		=		-		-		1,762,800
	\$ 29,474,712	\$	10,120,860	\$	17,591,052	\$	-	\$	1,762,800

Certain marketable securities investments are measured at fair value using net asset value per share under the practical expedient methodology.

# Note 9. Loss Per Share of Common Shares

Basic loss per share is derived by dividing net loss applicable to common stockholders by the weighted average number of shares of common stock outstanding during each period (excluding unvested shares of restricted common stock). Diluted loss per share includes the effect, if any, from the potential exercise or conversion of securities, such as warrants and stock options, which would result in the issuance of incremental shares of common stock unless such effect is anti-dilutive. In calculating the basic and diluted net loss per share applicable to common stockholders, the weighted average number of shares remained the same for both calculations due to the fact that when a net loss exists, dilutive shares are not included in the calculation. Potentially dilutive securities outstanding that have been excluded from diluted loss per share due to being anti-dilutive include the following:

	Outstanding at Se	ptember 30,
	2023	2022
Warrants to purchase Common Stock	177,998	177,998
Unvested restricted shares of common stock	6,000	=
Stock options	1,060,708	1,000,953
	1,244,706	1,178,951

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

You should read the following discussion and analysis of our financial condition and plan of operations together with our condensed consolidated financial statements and the related notes appearing elsewhere in this Quarterly Report. In addition to historical information, this discussion and analysis contains forward-looking statements that involve risks, uncertainties and assumptions. Our actual results may differ materially from the plans, intentions, expectations and other forward-looking statements included in the discussion below. Factors that could cause or contribute to such differences include, but are not limited to, those identified below, and those factors discussed in the Risk Factors section of our 2022 Form 10-K on file with the SEC.

#### Overview

We are a clinical stage biotechnology company, focused on leveraging artificial intelligence ("A.I."), machine learning and biomarker data to streamline the drug development process and to identify the patients that will benefit from our targeted oncology therapies. Our portfolio of therapies consists of small molecules that others have tried, but failed, to develop into an approved commercialized drug, as well as new compounds that we are developing with the assistance of our proprietary A.I. platform and our biomarker driven approach. Our A.I. platform, known as RADR<sup>®</sup>, currently includes more than 36 billion data points, and uses big data analytics (combining molecular data, drug efficacy data, data from historical studies, data from scientific literature, phenotypic data from trials and publications, and mechanistic pathway data) and machine learning to rapidly uncover biologically relevant genomic signatures correlated to drug response, and then identify the cancer patients that we believe may benefit most from our compounds. This data-driven, genomically-targeted and biomarker-driven approach allows us to pursue a transformational drug development strategy that identifies, rescues or develops, and advances potential small molecule drug candidates at what we believe is a fraction of the time and cost associated with traditional cancer drug development.

Our strategy is to both develop new drug candidates using our RADR® platform, and other machine learning driven methodologies, and to pursue the development of drug candidates that have undergone previous clinical trial testing or that may have been halted in development or deprioritized because of insufficient clinical trial efficacy (i.e., a meaningful treatment benefit relevant for the disease or condition under study as measured against the comparator treatment used in the relevant clinical testing) or for strategic reasons by the owner or development team responsible for the compound. Importantly, these historical drug candidates appear to have been well-tolerated in many instances, and often have considerable data from previous toxicity, tolerability and ADME (absorption, distribution, metabolism, and excretion) studies that have been completed. Additionally, these drug candidates may also have a body of existing data supporting the potential mechanism(s) by which they achieve their intended biologic effect, but often require more targeted trials in a stratified group of patients to demonstrate statistically meaningful results. Our dual approach to both develop de-novo, biomarker-guided drug candidates and "rescue" historical drug-candidates by leveraging A.I., recent advances in genomics, computational biology and cloud computing is emblematic of a new era in drug development that is being driven by data-intensive approaches meant to de-risk development and accelerate the clinical trial process. In this context, we intend to create a diverse portfolio of oncology drug candidates for further development towards regulatory and marketing approval with the objective of establishing a leading A.I.-driven methodology for treating the right patient with the right oncology therapy.

A key component of our strategy is to target specific cancer patient populations and treatment indications identified by leveraging our RADR<sup>®</sup> platform, a proprietary A.I. enabled engine created and owned by us. We believe the combination of our therapeutic area expertise, our A.I. expertise, and our ability to identify and develop promising drug candidates through our collaborative relationships with research institutions in selected areas of oncology gives us a significant competitive advantage. Our RADR<sup>®</sup> platform has been developed and refined over the last five years and integrates billions of data points immediately relevant for oncology drug development and patient response prediction using artificial intelligence and proprietary machine learning algorithms. By identifying clinical candidates, together with relevant genomic and phenotypic data, we believe our approach will help us design more efficient pre-clinical studies, and more targeted clinical trials, thereby accelerating our drug candidates' time to approval and eventually to market. Although we have not yet applied for or received regulatory or marketing approval for any of our drug candidates, we believe our RADR<sup>®</sup> platform has the ability to reduce the cost and time to bring drug candidates to specifically targeted patient groups. We believe we have developed a sustainable and scalable biopharma business model by combining a unique, oncology-focused big-data platform that leverages artificial intelligence along with active clinical and preclinical programs that are being advanced in targeted cancer therapeutic areas to address today's treatment needs.

Our current portfolio includes three lead drug candidates and an Antibody Drug Conjugate (ADC) program: three lead drug candidates in clinical phases and our ADC program in preclinical research optimization. All of these drug candidates and our ADC program are leveraging precision oncology, A.I. and genomic driven approaches to accelerate and direct development efforts.

In addition to our lead drug candidates, we also have an additional drug candidate, LP-100, that we believe has potential for future development in combination with the class of anticancer agents known as PARP inhibitors (PARPi). For LP-100, as well as our lead drug candidate LP-300, we are leveraging data from prior preclinical studies and clinical trials, along with insights generated from our A.I. platform, to target the types of tumors and patient groups we believe will be most responsive to the drug. Both LP-100 and LP-300 showed promise in important patient subgroups, but failed pivotal Phase III trials when the overall results did not meet the predefined clinical endpoints. We believe that this was due to a lack of biomarker-driven patient stratification.

LP-300 has been studied in multiple randomized, controlled, multi-center non-small cell lung cancer, or NSCLC, trials that included administration of either paclitaxel and cisplatin and/or docetaxel and cisplatin, and we are currently conducting a targeted phase II trial (the Harmonic<sup>™</sup> trial) for LP-300 in never smoking patients with NSCLC in combination with chemotherapy, under an existing investigational new drug application. LP-100 has previously been in a genomic signature guided phase 2 clinical trial in Denmark for patients with metastatic castration resistant prostate cancer (mCRPC). 9 patients (out of a targeted enrollment of 27) were treated in the trial. The median overall survival (OS) for the initial group of 9 patients was approximately 12.5 months, which is an improvement over other similar fourth-line treatment regimens for mCRPC. Based on our evaluation of the synergies of LP-100 with PARP inhibitors, the decision was made earlier this year to close the phase 2 clinical trial in Denmark, to allow the focus of LP-100-directed resources on positioning the molecule for development in earlier lines of therapy with potentially larger market opportunities. LP-100 was previously outlicensed by us to Allarity Therapeutics A/S. In July 2021, we entered into an Asset Purchase Agreement to reacquire global development and commercialization rights for LP-100 from Allarity.

We also have one new drug candidate, LP-184, in clinical development for multiple potentially distinct indications where we are leveraging machine learning and genomic data to streamline the drug development process and to identify the patients and cancer subtypes that will best benefit from this candidate, if approved. A second new lead drug candidate, LP-284, is in clinical development, and has shown promising *in-vitro* and *in vivo* anticancer activity in multiple hematological cancers, which are distinct from the indications targeted by LP-184. Both LP-184 and LP-284 are advancing in Phase I clinical trials that commenced earlier this year. Our ADC program is aimed at identifying targeted or therapeutic antibodies to conjugate with selected compounds. In January 2023, we formed a wholly owned subsidiary, Starlight Therapeutics Inc. ("Starlight"), to develop drug candidate LP-184's central nervous system (CNS) and brain cancer indications – including glioblastoma (GBM), brain metastases (brain mets.), and several rare pediatric CNS cancers. Following the formation of Starlight, we now refer to the molecule LP-184, as it is developed in CNS indications, as "STAR-001".

Our development strategy is to pursue an increasing number of oncology focused, molecularly targeted therapies where artificial intelligence and genomic data can help us provide biological insights, reduce the risk associated with development efforts and help clarify potential patient response. We plan on strategically evaluating these on a program-by-program basis as they advance into clinical development, either to be done entirely by us, or with licensing partners, to maximize the commercial opportunity and reduce the time it takes to bring the right drug to the right patient.

To date, except for a prior research grant, we have not generated any revenue, we have incurred net losses and our operations have been financed primarily by sales of our equity securities. Our net losses were approximately \$11,776,000 and \$10,879,000 for the nine months ended September 30, 2023 and 2022, respectively.

Our net losses have primarily resulted from costs incurred in licensing and developing the drug candidates in our pipeline, planning, preparing and conducting preclinical studies and clinical testing, and general and administrative activities associated with our operations. We expect to continue to incur significant expenses and corresponding increased operating losses for the foreseeable future as we continue to develop our pipeline. Our costs may further increase as we conduct additional preclinical studies and clinical trials and potentially seek regulatory clearance for and prepare to commercialize our drug candidates. We expect to incur significant expenses to continue to build the infrastructure necessary to support our expanded operations, preclinical studies, clinical trials, and commercialization, including manufacturing, marketing, sales and distribution functions. We have experienced and will continue to experience substantial costs associated with operating as a public company.

As of the date of this report, we believe we have effectively managed the impact of the COVID-19 pandemic on our operations. A continuance or resurgence of the COVID-19 pandemic (or the occurrence of another epidemic or infectious disease outbreak) or its impact on the overall economy could in the future have a material impact on our business.

#### **Components of Our Results of Operations**

#### Revenues

We did not recognize revenues for the nine month periods ended September 30, 2023 and 2022.

#### **Expenses**

Our research and development expenses by project category for the three and nine months ended September 30, 2023 are as follows:

	ee Months Ended iber 30, 2023	 Nine Months Ended September 30, 2023
LP-300	\$ 609,734	\$ 2,337,297
LP-184	738,147	2,927,721
LP-284	355,424	1,700,499
LP-100	40,989	106,015
ADC Program	99,301	190,793
RADR <sup>®</sup> Platform	253,902	749,955
Other	112,397	308,778
Total research and development expenses	\$ 2,209,894	\$ 8,321,058

We expect that our research and development expenses will increase as we progress our clinical trials for LP-300, LP-184, and LP-284, and advance our other drug candidates and programs. We expect this increase to include additional expenses associated with research and service provider agreements for the advancement of our drug candidates and research and development efforts.

Because of the numerous risks and uncertainties associated with product development, we cannot determine with certainty the duration and completion costs of these or other current or future clinical trials of LP-300, LP-184, LP-284 or our other drug candidates. We may never succeed in achieving regulatory approval for LP-300, LP-184, LP-284, or any of our other drug candidates. The duration, costs and timing of clinical trials and development of our drug candidates will depend on a variety of factors, including the uncertainties of future clinical and preclinical studies, uncertainties in clinical trial enrollment rates and significant and changing government regulation. In addition, the probability of success for each drug candidate will depend on numerous factors, including competition, manufacturing capability and commercial viability.

#### General and Administrative

General and administrative expenses consist primarily of salaries and related costs for employees in executive, finance and administration, corporate development and administrative support functions, including stock-based compensation expenses and benefits. Other significant general and administrative expenses include accounting and legal services, insurance, the cost of various consultants, occupancy costs, investor relations and information systems costs.

We expect that our general and administrative expenses will increase as we continue to operate as a public company. We expect increased administrative costs resulting from our existing and anticipated clinical trials and the potential commercialization of our drug candidates. We believe that these increases will likely include increased costs for director and officer liability insurance, hiring additional personnel to support future market research and future product commercialization efforts and increased fees for outside consultants, attorneys and accountants. We also expect to continue to incur increased costs to comply with corporate governance, internal controls, investor relations and disclosures and similar requirements applicable to a public company.

#### Summary Results of Operations for the Three and Nine Months Ended September 30, 2023 and 2022 (unaudited)

	 Three Months Ended September 30,				Nine Months Ended September 30,		
	 2023		2022		2023		2022
Operating expenses:							
General and administrative	\$ 1,313,727	\$	1,442,961	\$	4,679,128	\$	4,255,119
Research and development	2,209,894		702,296		8,321,058		6,351,356
Total operating expenses	3,523,621		2,145,257		13,000,186		10,606,475
Loss from operations	 (3,523,621)		(2,145,257)		(13,000,186)		(10,606,475)
Interest income	246,394		52,224		497,999		129,671
Other (expense) income, net	115,777		(171,648)		726,574		(402,037)
NET LOSS	\$ (3,161,450)	\$	(2,264,681)	\$	(11,775,613)	\$	(10,878,841)

#### Comparison of the Three Months Ended September 30, 2023 and 2022

### General and Administrative Expenses

General and administrative expenses decreased approximately \$129,000, or 9%, from approximately \$1,443,000 for the three months ended September 30, 2022 to approximately \$1,314,000 for the three months ended September 30, 2023. The decrease was primarily attributable to decreases in corporate insurance expense of approximately \$115,000, decreases in office and administrative expenses of \$49,000, decreases in payroll and compensation expenses of approximately \$41,000 and decreases in legal expenses of \$23,000. This was partially offset by increases in other professional fees of approximately \$62,000 and increases in travel expenses of approximately \$34,000.

# Research and Development Expenses

Research and development expenses increased approximately \$1,508,000, or 215%, from approximately \$702,000 for the three months ended September 30, 2022 to approximately \$2,210,000 for the three months ended September 30, 2023. A substantial portion of the increase is related to a \$935,000 payment received from a service provider in July 2022 to resolve a difference of views in the service provider agreement, which reduced our research and development expenses during the three months ended September 30, 2022. The increase was also attributable to increases in product candidate manufacturing expenses of approximately \$753,000, increases in research studies of approximately \$354,000, increases in payroll and compensation expenses of approximately \$281,000 and increases in consulting expenses of approximately \$120,000.

#### Interest and Other Income (Expense) Net

Interest income increased approximately \$194,000 from approximately \$52,000 for the three months ended September 30, 2022 to approximately \$246,000 for the three months ended September 30, 2023. Other income (expense), net increased approximately \$288,000 from a loss of approximately \$172,000 for the three months ended September 30, 2022 to a gain of approximately \$116,000 for the three months ended September 30, 2023. This increase was primarily attributable to increases in dividend income of approximately \$152,000, increases in unrealized gains on investments of approximately \$102,000, increases of approximately \$18,000 in research and development tax incentives related to our Australia subsidiary, and decreases in foreign currency losses of approximately \$16,000.

#### Comparison of the Nine Months Ended September 30, 2023 and 2022

#### General and Administrative Expenses

General and administrative expenses increased approximately \$424,000, or 10%, from approximately \$4,255,000 for the nine months ended September 30, 2022 to approximately \$4,679,000 for the nine months ended September 30, 2023. The increase was primarily attributable to increases in other professional fees of approximately \$335,000, increases in payroll and compensation expenses of approximately \$296,000, increases in travel expenses of approximately \$113,000, increases in business development expenses of approximately \$41,000 and increases in rent expenses of approximately \$28,000. This was partially offset by decreases in corporate insurance expense of approximately \$296,000, decreases in legal expenses of approximately \$61,000, and decreases in office and other administrative expenses of \$36,000.

# Research and Development Expenses

Research and development expenses increased approximately \$1,970,000, or 31%, from approximately \$6,351,000 for the nine months ended September 30, 2022 to approximately \$8,321,000 for the nine months ended September 30, 2023. A substantial portion of the increase is related to a \$935,000 payment received from a service provider in July 2022 to resolve a difference of views in the service provider agreement, which reduced our research and development expenses during the nine months ended September 30, 2022. The increase was also attributable to increases in research studies of approximately \$1,664,000, increases in payroll and compensation expenses of approximately \$976,000 and increases in consulting expenses of approximately \$76,000. The above increases were partially offset by decreases in product and manufacturing expenses of approximately \$288,000 and a decrease of approximately \$458,000 related to an escrow payment released to Allarity under the Allarity Asset Purchase Agreement during the nine months ended September 30, 2022, which payment was a nonrecurring expense.

#### Interest and Other Income (Expense) Net

Interest income increased approximately \$368,000 from approximately \$130,000 for the nine months ended September 30, 2022 to approximately \$498,000 for the nine months ended September 30, 2023. Other income (expense), net increased approximately \$1,129,000 from a loss of approximately \$402,000 for the nine months ended September 30, 2022 to a gain of approximately \$727,000 for the nine months ended September 30, 2023. This increase was primarily attributable to increases in unrealized gains on investments of approximately \$459,000, increases in dividend income of approximately \$399,000, increases of approximately \$263,000 in research and development tax incentives related to our Australia subsidiary and decreases in foreign currency losses of approximately \$7,000.

# **Liquidity and Capital Resources**

We incurred net losses of approximately \$11,776,000 and \$10,879,000 for the nine months ended September 30, 2023 and 2022, respectively. As of September 30, 2023, we had working capital of approximately \$45,173,000 and as of December 31, 2022 we had working capital of approximately \$55,924,000.

We have not yet generated any revenues from operations, other than revenues from a research grant, and we have not yet achieved profitability. We expect that general and administrative expenses and our research and development expenses will continue to increase and, as a result, we will need to generate significant product revenues to achieve profitability. We may never achieve profitability.

#### **Sources of Liquidity**

Since our inception, our operations have been financed primarily through the sale of equity securities, and, to a much lesser extent, funds received by us from a loan pursuant to the Paycheck Protection Program under the Coronavirus Aid, Relief, and Economic Security (CARES) Act and a 2017 grant from the Massachusetts Life Sciences Center. We plan to apply for grant funding in the future to assist in supporting our capital needs. We may also explore the possibility of entering into commercial credit facilities as an additional source of liquidity.

As of September 30, 2023 and December 31, 2022, we had cash and cash equivalents of approximately \$25,572,000 and \$37,202,000, respectively. Based on our anticipated expenditures and capital commitments as of the date of this report, we believe that our existing cash and cash equivalents as of September 30, 2023 will enable us to fund our operating expenses and capital expenditure requirements for at least 12 months from the date of this Quarterly Report. As of September 30, 2023 and December 31, 2022, we had marketable securities of approximately \$19,354,000 and \$17,994,000, respectively.

#### **Cash Flows**

The following table summarizes our cash flow for the periods indicated:

	 For the Nine I Septem		
	2023 202		2022
	 (Unau	dited)	
Net cash flows used in operating activities	\$ (10,961,198)	\$	(10,098,629)
Net cash flows used in investing activities	(1,186,391)		(423,593)
Net cash flows used in financing activities	-		(2,182,498)
Effect of foreign exchange rates on cash	(23,649)		(20,508)
Net decrease in cash, cash equivalents and restricted cash	\$ (12,171,238)	\$	(12,725,228)

# **Operating Activities**

For the nine months ended September 30, 2023, net cash used in operating activities was approximately \$10,961,000 compared to approximately \$10,099,000 for the nine months ended September 30, 2022. The increase in net cash used in operating activities was primarily due to the increase in the net loss for the nine months ended September 30, 2023, including cash used to reduce accounts payable and accrued expenses during the nine months ended September 30, 2023.

#### **Investing Activities**

For the nine months ended September 30, 2023, net cash used in investing activities was approximately \$1,186,000 compared to \$424,000 of net cash used in investing activities for the nine months ended September 30, 2022. The increase in cash used in investing activities is primarily related to a higher level of purchases of marketable securities during the nine months ended September 30, 2023.

# **Financing Activities**

Net cash used in financing activities was approximately \$2,182,000 during the nine months ended September 30, 2022, attributable primarily to repurchases of shares pursuant to the Company's share repurchase program. No cash was used in financing activities during the nine months ended September 30, 2023.

#### **Operating Capital and Capital Expenditure Requirements**

We expect to continue to incur significant and increasing operating losses at least for the next several years as we continue our clinical trials for LP-300, LP-184 and LP-284, advance our other drug candidates and programs, and seek potential future marketing approval for our drug candidates, which could be several years in the future, if at all. We do not expect to generate revenue, other than possible license and grant revenue, unless and until we successfully complete development and obtain regulatory approval for our therapeutic candidates. Our net losses may fluctuate significantly from quarter-to-quarter and year-to-year, depending on the timing of our clinical trials and our expenditures on other research and development activities.

We have based our projections of operating capital requirements on assumptions that may prove to be incorrect and we may use all of our available capital resources sooner than we expect. Because of the numerous risks and uncertainties associated with research, development and commercialization of pharmaceutical products, we are unable to estimate the exact amount of our operating capital requirements. We anticipate that our expenses will increase substantially as we:

- continue the development, including preclinical studies and clinical trials, of our drug candidates;
- initiate preclinical studies and clinical trials for any additional indications for our current drug candidates and any future drug candidates that we may pursue;
- continue to build our portfolio of drug candidates through the acquisition or in-license of additional drug candidates or technologies;
- continue to develop, maintain, expand and protect our intellectual property portfolio;
- pursue regulatory approvals for those of our current and future drug candidates that successfully complete clinical trials;
- ultimately establish a sales, marketing, distribution and other commercial infrastructure to commercialize any drug candidate for which we may obtain marketing approval;
- hire additional clinical, regulatory, scientific and accounting personnel;
- incur additional legal, accounting and other expenses in operating as a public company; and
- continue to develop, maintain, and expand our RADR<sup>®</sup> platform.

We expect that we will need to obtain substantial additional funding in order to complete our clinical trials. To the extent that we raise additional capital through the sale of common stock, convertible securities or other equity securities, the ownership interests of our existing stockholders may be materially diluted and the terms of these securities could include liquidation or other preferences that could adversely affect the rights of our existing stockholders. In addition, debt financing, if available, would result in increased fixed payment obligations and may involve agreements that include restrictive covenants that limit our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends, that could adversely impact our ability to conduct our business. If we are unable to raise capital when needed or on attractive terms, we could be forced to significantly delay, scale back or discontinue the development or commercialization of LP-300, LP-184, LP-284, and/or our other drug candidates and programs, seek collaborators at an earlier stage than otherwise would be desirable or on terms that are less favorable than might otherwise be available, and relinquish or license, potentially on unfavorable terms, our rights to LP-300, LP-184, LP-284, and/or other drug candidates and programs that we otherwise would seek to develop or commercialize ourselves.

#### **Critical Accounting Estimates**

There have been no changes to our critical accounting estimates during the nine months ended September 30, 2023.

# Quantitative and Qualitative Disclosure About Market Risk

Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates. Fixed rate securities may have their market value adversely affected due to a rise in interest rates. Accordingly, our future investment income may fluctuate as a result of changes in interest rates, or we may suffer losses in principal if we are forced to sell securities that decline in market value as a result of changes in interest rates.

Historically, we have raised capital through the issuance of equity securities. We had no long-term debt outstanding as of September 30, 2023 and December 31, 2022.

We do not believe that our cash and cash equivalents have significant risk of default or illiquidity. Our cash and cash equivalents consist primarily of cash and money market funds. Our exposure to market risk relating to cash and cash equivalents due to changes in interest rates is limited because our cash and cash equivalents have a short-term maturity and are used primarily for working capital purposes. Our marketable securities have had and may in the future have their market value adversely affected due to rises in interest rates. While we believe our cash, cash equivalents and marketable securities do not contain excessive risk, we cannot provide absolute assurance that in the future our investments will not be subject to adverse changes in market value. In addition, we maintain significant amounts of cash and cash equivalents at one or more financial institutions that are in excess of federally insured limits. Interest bearing and non-interest bearing accounts we hold at banking institutions are guaranteed by the Federal Deposit Insurance Corporation ("FDIC") up to \$250,000. Substantially all of our cash balances held at banking institutions are in excess of FDIC coverage. We consider this to be a normal business risk.

We formed a wholly owned subsidiary, Lantern Pharma Australia Pty Ltd, in Australia in September 2021 and experienced foreign currency losses of approximately \$130,000 and \$159,000 for the nine months ended September 30, 2023 and 2022, respectively, in connection with this subsidiary. We will remain subject to the risk of foreign currency losses in future periods, although we do not expect the impact of any foreign currency losses to be material. We do not participate in any foreign currency hedging activities, and we do not have any other derivative financial instruments.

Inflation generally affects us by increasing our cost of labor and clinical trial costs. We do not believe that inflation has had a material effect on our results of operations during the periods presented. Inflation has increased substantially in recent periods and could have a greater impact on our future results of operations if it remains at current levels or continues to increase.

### Item 3. Quantitative and Qualitative Disclosures About Market Risk.

As a Smaller Reporting Company we are exempt from the requirements of Item 3.

#### Item 4. Controls and Procedures.

#### **Evaluation of Disclosure Controls and Procedures.**

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer (our principal executive officer and principal financial officer, respectively), evaluated the effectiveness of our disclosure controls and procedures as of September 30, 2023. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

Based on the evaluation of our disclosure controls and procedures as of September 30, 2023, our Chief Executive Officer and Chief Financial Officer have concluded that, as of such date, our disclosure controls and procedures, as defined above, are effective.

### Changes in Internal Control Over Financial Reporting.

There were no changes in our internal control over financial reporting that occurred during the three months ended September 30, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

### Inherent Limitations on Effectiveness of Controls.

Our management, including our principal executive officer and principal financial officer, do not expect that our disclosure controls or our internal control over financial reporting will prevent all errors 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. 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. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of a simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by management override of the controls. The design of any system of controls is also 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 its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions, or the degree of compliance with policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

# PART II – OTHER INFORMATION

# Item 1A. Risk Factors.

As a Smaller Reporting Company we are exempted from the requirements of Item 1A.

# Item 6. Exhibits.

Exhibit No.	Exhibit Description	Method of Filing
3.1	Amended and Restated Certificate of Incorporation	Incorporated by reference from the Registrant's Current Report on Form 8-K filed June 17, 2020
3.2	<u>By-Laws</u>	Incorporated by reference from the Registrant's Registration Statement on Form S-1 filed April 16, 2020
10.1	Amendment to Second Amended and Restated Lantern Pharma Inc. 2018 Equity Incentive Plan	Incorporated by reference from Exhibit A to Registrant's Definitive Proxy Statement filed April 28, 2023
31.1	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	Filed electronically herewith
31.2	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	Filed electronically herewith
32.1	<u>Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>	Furnished electronically herewith
32.2	<u>Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>	Furnished electronically herewith
101.INS	Inline XBRL Instance Document.	Filed electronically herewith
101.SCH	Inline XBRL Taxonomy Extension Schema Document.	Filed electronically herewith
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.	Filed electronically herewith
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.	Filed electronically herewith
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.	Filed electronically herewith
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.	Filed electronically herewith
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).	Filed electronically herewith
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# **SIGNATURES**

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

Lantern Pharma Inc.,

A Delaware Corporation

Dated: November 8, 2023

By: /s/ Panna Sharma Panna Sharma
Panna Sharma, Chief Executive Officer

Dated: November 8, 2023

By: /s/ David R. Margrave
David R. Margrave, Chief Financial Officer

# CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, Panna Sharma, certify that:

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

Date: November 8, 2023

/s/ Panna Sharma
Chief Executive Officer (Principal Executive Officer)

# CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, David R. Margrave, certify that:

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

Date: November 8, 2023

/s/ David R. Margrave
Chief Financial Officer (Principal Financial Officer)

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

Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Lantern Pharma Inc. (the "Company") hereby certifies, to his knowledge, that:

- (1) the accompanying Quarterly Report on Form 10-Q of the Company for the fiscal quarter ended September 30, 2023 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 8, 2023	
/s/ Panna Sharma	
Chief Executive Officer (Principal Executive Officer)	

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

Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Lantern Pharma Inc. (the "Company") hereby certifies, to his knowledge, that:

- (1) the accompanying Quarterly Report on Form 10-Q of the Company for the fiscal quarter ended September 30, 2023 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 8, 2023	
/s/ David R. Margrave	
Chief Financial Officer (Principal Financial Officer)	