UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 2)

Lantern Pharma Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

51654W101 (CUSIP Number)

Bios Equity Partners, LP 1751 River Run, Suite 400 Fort Worth, Texas Tel: (817) 984-9197

With a Copy to: Rick Jordan Polsinelli PC 2950 Harwood St., Suite 2100 Dallas, Texas 75201 Tel: (214) 397-0030

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

November 29, 2023 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), Rule 13d-1(f) or Rule 13d-1(g), check the following box. \Box

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1	NAME OF REPORTING PERSONS							
	BIOS FUND I, LP							
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □ (b) ☑							
3	SEC USE ONLY							
4	SOURCE OF FUNDS							
	WC							
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)							
6	CITIZENSHIP OR PLACE OF ORGANIZATION							
	DELAWARE, UNITED STATES							
NI	UMBER OF 7 SOLE VOTING POWER							
	SHARES							
BEN	NEFICIALLY -0-							
	WNED BY							

EACH 8 SHARED VOTING POWER		SHARED VOTING POWER				
REPORTING						
-	PERSON		371,950 (1)			
	WITH	9	SOLE DISPOSITIVE POWER			
			-()-			
		10	Ť			
		10	SHARED DISPOSITIVE POWER			
			371,950 (1)			
11	AGGREGAT	E AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	371,950(1)					
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES					
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)					
1.4	3.5% (2)					
14	TYPE OF REPORTING PERSON					
	M.					
	PN					

- (1) Consists of 371,950 shares of common stock of the Issuer, par value \$0.0001 per share ("Shares") directly held by Bios Fund I, LP ("Bios Fund I") as of the date hereof.
- (2) Based on 10,723,692 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023 minus (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP, LP ("Bios Fund I QP") on November 21, 2023.

1	NAME OF D	EDOD	TING DEDSONS				
1	NAME OF REPORTING PERSONS						
	BIOS FUND I QP, LP						
2		E APPR	OPRIATE BOX IF A MEMBER OF A GROUP				
	(a) □ (b) ⊠						
3	SEC USE ON	II V					
3	SEC USE OF	NL I					
4	SOURCE OF	FUND	S S				
	WC						
5		K IF DI	SCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)				
6	CITIZENSH	IP OR I	PLACE OF ORGANIZATION				
	DELAWARI	E, UNIT	TED STATES				
NI	JMBER OF	7	SOLE VOTING POWER				
	SHARES						
	NEFICIALLY	8	-0- SHARED VOTING POWER				
О	WNED BY	0	SHAKED VOTING FOWER				
D1	EACH EPORTING		217,553 (1)				
	PERSON	9	SOLE DISPOSITIVE POWER				
	WITH						
		10	-0- SHARED DISPOSITIVE POWER				
		10	SHARED DISTOSITIVE TO WER				
	217,553 (1)						
11	AGGREGAT	E AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	217,553 (1)						
12							
13	□ □ PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)						
13	I LICENI O	LCLA	SS KLI KLULNI LD DI AMOUNI IN KOW (11)				
	2.0% (2)						
14	TYPE OF RE	EPORT	ING PERSON				
	PN						

- (1) Consists of 217,553 Shares directly held by Bios Fund I QP as of the date hereof.
- (2) Based on 10,723,692 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023 *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023.

1	NAME OF REPORTING PERSONS				
2	BIOS FUND II, LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP				
	(a) □ (b) ⊠				
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
	WC				
5		CLOSU	RE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
6	CITIZENSHIP OR PLA				
	DELAWARE, UNITE	D STA	TES		
	NUMBER OF	7	SOLE VOTING POWER		
	SHARES				
	BENEFICIALLY		-0-		
	OWNED BY	8	SHARED VOTING POWER		
	EACH		180,938 (1)		
	REPORTING	9	SOLE DISPOSITIVE POWER		
	PERSON WITH	_	SOLE BISTOSTIVE TO WEEK		
	WIII		-0-		
		10	SHARED DISPOSITIVE POWER		
			180,938 (1)		
11	AGGREGATE AMOU	JNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON		
	100.020 (1)				
10	180,938 (1)	1 C C I	DECLETE ALGORITHM DAILY (ALL DAVIN DECLETE DE LA CALIDE		
12	2 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES				
13	PERCENT OF CLASS	S REPF	ESENTED BY AMOUNT IN ROW (11)		
	1.7% (2)				
14	TYPE OF REPORTIN	G PER	SON		
	PN				
	111				

- (1) Consists of (i) 164,137 Shares, and (ii) 16,799 Shares issuable upon the exercise of warrants, in each case, directly held by Bios Fund II, LP ("Bios Fund II") as of the date hereof.
- (2) Based on 10,740,493 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II.

1	NAME OF REPORTI	NG PE	RSONS		
	BIOS FUND II QP, LI	P			
2	CHECK THE APPRO	PRIAT	E BOX IF A MEMBER OF A GROUP		
	(a) □ (b) ⊠				
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
	WC				
5	CHECK BOX IF DISC	LOSUI	RE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION				
	DELAWARE, UNITED STATES				
	NUMBER OF 7 SOLE VOTING POWER				
	SHARES BENEFICIALLY -0-				
OWNED BY 8 SHA			SHARED VOTING POWER		
EACH 591,036 (1)					
	REPORTING PERSON	9	SOLE DISPOSITIVE POWER		
	WITH -0-				
			-U-		
l					

1	10 SHARED DISPOSITIVE POWER
	TO STRIKED BISTOSTITVE TO WEEK
	591,036 (1)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	591,036 (1)
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
	5.5% (2)
14	TYPE OF REPORTING PERSON
	PN

- (1) Consists of (i) 536,163 Shares and (ii) 54,873 Shares issuable upon the exercise of warrants, in each case, directly held by Bios Fund II QP, LP ("Bios Fund II QP") as of the date hereof.
- (2) Based on 10,778,565 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP.

1	NAME OF REPORTING PERSONS					
	BIOS FUND II NT, LP					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □ (b) ⊠					
3	SEC USE ONLY					
4	SOURCE OF FUNDS					
	WC					
5	CHECK BOX IF DISC	CLOSU	URE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP OR PL	ACE (OF ORGANIZATION			
	DELAWARE, UNITE	ED STA	TES			
	NUMBER OF	7	SOLE VOTING POWER			
	SHARES BENEFICIALLY		-0-			
	OWNED BY	8	SHARED VOTING POWER			
	EACH REPORTING		79,121 (1)			
	PERSON	9	SOLE DISPOSITIVE POWER			
	WITH		-0-			
		10	SHARED DISPOSITIVE POWER			
			79,121 (1)			
11	AGGREGATE AMOU	UNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON			
	79,121 (1)					
12						
13	PERCENT OF CLASS	S REPI	RESENTED BY AMOUNT IN ROW (11)			
	0.7% (2)					
14	TYPE OF REPORTIN	IG PEI	RSON			
	PN					

- (1) Consists of (i) 71,774 Shares and (ii) 7,347 Shares issuable upon the exercise of warrants, in each case, directly held by Bios Fund II NT, LP ("Bios Fund II NT") as of the date hereof.
- (2) Based on 10,731,039 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTING PERSONS				
	BP DIRECTORS, LP				
2	CHECK THE APPROD	PRIAT	E BOX IF A MEMBER OF A GROUP		
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
	00				
5	CHECK BOX IF DISC	CLOSU	JRE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
6	CITIZENSHIP OR PL	ACE (OF ORGANIZATION		
	DELAWARE, UNITE	D STA	TES		
NUMBER OF 7 S			SOLE VOTING POWER		
	SHARES BENEFICIALLY		-0-		
	OWNED BY	8	SHARED VOTING POWER		
	EACH		26,093 (1)		
	REPORTING PERSON	9	SOLE DISPOSITIVE POWER		
	WITH		-0-		
		10	SHARED DISPOSITIVE POWER		
			26,093 (1)		
11	AGGREGATE AMOU	NT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON		
	26,093 (1)				
12		AGGI	REGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT OF CLASS	REPF	RESENTED BY AMOUNT IN ROW (11)		
	0.2% (2)				
14	TYPE OF REPORTIN	G PER	SON		
	PN				

- (1) Consists of 26,093 Shares directly held by BP Directors, LP ("Bios Directors") as of the date hereof.
- (2) Based on 10,723,692 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023 *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023.

1	NAME OF REPORTING PERSONS							
	BIOS EQUIT	BIOS EQUITY PARTNERS, LP						
2		APPI	ROPRIATE BOX IF A MEMBER OF A GROUP					
	(a) □ (b) ⊠							
3	SEC USE ON	ILY						
4	SOURCE OF	FUN	DS					
	AF							
5	CHECK BOX	(IF D	ISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)					
6		HIP OR PLACE OF ORGANIZATION						
	TEXAS, UNI	TEXAS, UNITED STATES						
	NUMBER OF	7	SOLE VOTING POWER					
	SHARES		_0-					
В	ENEFICIALLY OWNED BY	8	SHARED VOTING POWER					
	EACH							
	REPORTING		615,596 (1)					
	PERSON	9	SOLE DISPOSITIVE POWER					
	WITH		-0-					

	10 SHARED DISPOSITIVE POWER 615,596 (1)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	Addition Development Development of the Original Origina Original Original Origina Origina Origina Origina Origina Origina Origin
	615,596 (1)
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
	5.7% (2)
14	TYPE OF REPORTING PERSON
	PN

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP and (iii) 26,093 Shares directly held by Bios Directors, in each case, as of the date hereof. Bios Equity Partners, LP ("Bios Equity I") is the general partner of Bios Fund I, Bios Fund I QP and Bios Directors. In its capacity as the general partner of these entities, Bios Equity I may be deemed to have shared voting and/or dispositive power with respect to Shares directly or indirectly held by these entities.
- (2) Based on 10,723,692 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023 *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023.

1	NAME OF REPORTING PERSONS				
	BIOS EQUITY PARTNERS II, LP				
2	CHECK THE APPROI		E BOX IF A MEMBER OF A GROUP		
	(a) □ (b) ⊠				
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
	AF				
5		CLOSU	IRE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
6	CITIZENSHIP OR PL	ACE C	OF ORGANIZATION		
	TEXAS, UNITED STA	ATES			
	NUMBER OF	7	SOLE VOTING POWER		
	SHARES BENEFICIALLY		-0-		
	OWNED BY	8	SHARED VOTING POWER		
	EACH REPORTING		851,095 (1)		
	PERSON	9	SOLE DISPOSITIVE POWER		
	WITH		-0-		
		10	SHARED DISPOSITIVE POWER		
			851,095 (1)		
11	AGGREGATE AMOU	JNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON		
	851,095 (1)				
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES				
13	PERCENT OF CLASS	S REPI	RESENTED BY AMOUNT IN ROW (11)		
L.	7.9% (2)				
14	TYPE OF REPORTING PERSON				
	PN				

- (1) Consists of (i) 164,137 Shares directly held by Bios Fund II, (ii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iii) 536,163 Shares directly held by Bios Fund II QP, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (v) 71,774 Shares directly held by Bios Fund II NT and (vi) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, in each case, as of the date hereof. Bios Equity Partners II, LP ("Bios Equity II") is the general partner of Bios Fund II, Bios Fund II QP and Bios Fund II NT. In its capacity as the general partner of these entities, Bios Equity II may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly held by these entities.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTING PERSONS				
	CAVU MANAGEMENT, LP				
2	CHECK THE APPRO (a) □ (b) ⊠	PRIAT	E BOX IF A MEMBER OF A GROUP		
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
	AF				
5		CLOSU	JRE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
6	CITIZENSHIP OR PL		OF ORGANIZATION CONTROL OF THE PROPERTY OF THE		
	TEXAS, UNITED ST	1			
	NUMBER OF	7	SOLE VOTING POWER		
	SHARES		-()-		
	BENEFICIALLY	8	SHARED VOTING POWER		
	OWNED BY EACH				
	REPORTING		1,466,691 (1)		
	PERSON	9	SOLE DISPOSITIVE POWER		
	WITH		-0-		
		10	SHARED DISPOSITIVE POWER		
			1,466,691 (1)		
11	AGGREGATE AMOU	UNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,466,691 (1)				
12	CHECK DON IE THE ACCRECATE AMOUNT IN DOW (11) EVOLVIDES CERTAIN SHARES				
13	PERCENT OF CLASS	S REPI	RESENTED BY AMOUNT IN ROW (11)		
	13.6% (2)				
14	TYPE OF REPORTIN	IG PEF	RSON		
	PN				

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II, (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vi) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (vii) 71,774 Shares directly held by Bios Fund II NT, (viii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund I, Bios Fund II QP and Bios Fund II NT. Cavu Management, LP ("Cavu Management") is a general partner of Bios Equity II and Bios Equity II. In its capacity as a general partner of Bios Equity II, Cavu Management may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II QP, Bios Fund II QP, Bios Fund II NT and Bios Directors.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTING PERSONS
	BIOS CAPITAL MANAGEMENT, LP
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
	$(a) \square (b) \boxtimes$
3	SEC USE ONLY
4	SOURCE OF FUNDS
	AF
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION
	TEXAS, UNITED STATES

	NUMBER OF	7	SOLE VOTING POWER
]	SHARES BENEFICIALLY		-0-
	OWNED BY EACH	8	SHARED VOTING POWER
	REPORTING		1,466,691 (1)
	PERSON WITH	9	SOLE DISPOSITIVE POWER
			-0-
		10	SHARED DISPOSITIVE POWER
			1,466,691 (1)
11	AGGREGATE AMOU	JNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON
	1,466,691 (1)		
12	CHECK BOX IF THE	AGGl	REGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT OF CLASS	REPI	RESENTED BY AMOUNT IN ROW (11)
	13.6% (2)		
14	TYPE OF REPORTIN	G PEF	RSON
	PN		

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II, (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vi) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (vii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund I, Bios Fund II QP and Bios Fund II NT. Bios Capital Management, LP ("Bios Management") is a general partner of Bios Equity I and Bios Equity II. In its capacity as a general partner of Bios Equity II, Bios Management may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II, Bios
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

I	NAME OF R	EPOR	TING PERSONS
	CAVU ADVI	SORS	, LLC
2		APPR	ROPRIATE BOX IF A MEMBER OF A GROUP
	(a) □ (b) ⊠		
3	SEC USE ON	LY	
4	SOURCE OF	FIINI	20
7	SOURCE OF	TONE	
	AF		
5	CHECK BOX	IF DI	SCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
6	CITIZENSHI	P OR 1	PLACE OF ORGANIZATION
	TEXAS, UNI	TED C	TATES
	,	7	SOLE VOTING POWER
	JMBER OF SHARES	·	
	NEFICIALLY	_	-0-
O	WNED BY	8	SHARED VOTING POWER
DI	EACH EPORTING		1,466,691 (1)
	PERSON	9	SOLE DISPOSITIVE POWER
	WITH		
		10	-0- SHARED DISPOSITIVE POWER
		10	SHARED DISTOSTITUE TO WER
			1,466,691 (1)
11	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	1,466,691 (1)		
12			HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT O	F CLA	ASS REPRESENTED BY AMOUNT IN ROW (11)
	13.6% (2)		

14	TYPE OF REPORTING PERSON
	00

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II, (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vi) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (vii) 71,774 Shares directly held by Bios Fund II NT, (viii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund I, Bios Fund II QP and Bios Fund II NT. Cavu Management is a general partner of Bios Equity I and Bios Equity II. Cavu Advisors, LLC ("Cavu Advisors") is the general partner of Cavu Management, and therefore, may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II QP, Bios Fund II NT and Bios Directors.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTIN		RSONS
2	BIOS ADVISORS GP		E BOX IF A MEMBER OF A GROUP
2	(a) □ (b) ⊠	FKIA	E DOA IF A MEMBER OF A UROUF
3	SEC USE ONLY		
4	SOURCE OF FUNDS		
	AF		
5		CLOSI	IRE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
	CHECK BOILE BIS	22000	7. E. S. E. S. E. F. G. C. E. F. G. G. E. F. T. G. T. E. G. E. G.
6	CITIZENSHIP OR PL	ACE (OF ORGANIZATION
	TEXAS, UNITED STA	ATES	
	NUMBER OF	7	SOLE VOTING POWER
	SHARES		
	BENEFICIALLY	0	-0-
	OWNED BY	8	SHARED VOTING POWER
	EACH REPORTING		1,466,691 (1)
	PERSON	9	SOLE DISPOSITIVE POWER
	WITH		
		10	-0- SHARED DISPOSITIVE POWER
		10	SINIALD DISTOSITIVE TO WER
			1,466,691 (1)
11	AGGREGATE AMOU	JNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON
11	1.466.601.(1)		
	1,466,691 (1)	AGG	REGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
12	CHECK BOX II THE	7100.	CONTENTION IN NOW (11) EXCEODES CERTAIN SITURES
13	PERCENT OF CLASS	S REPI	RESENTED BY AMOUNT IN ROW (11)
	13.6% (2)		
14	TYPE OF REPORTIN	IG PEI	SON
14			
	00		

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II, (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vi) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (vii) 71,774 Shares directly held by Bios Fund II NT, (viii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund II, Bios Fund II QP and Bios Directors. Bios Equity I is the general partner of Bios Fund II, Bios Fund II NT. Bios Management is a general partner of Bios Equity I and Bios Equity II. Bios Advisors GP, LLC ("Bios Advisors") is the general partner of Bios Management, and therefore, may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II, Bios Fund II QP, Bios Fund II NT and Bios Directors.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTING PERSONS				
	LESLIE WA	YNE K	IREIS, JR.		
2		APPR	ROPRIATE BOX IF A MEMBER OF A GROUP		
	(a) □ (b) ⊠				
3	SEC USE ON	ILY			
4	SOURCE OF	FUNI	2C		
	AF, OO				
5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			SCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)		
-	CITIZENSIII	D OD 1	PLACE OF ORGANIZATION		
6			PLACE OF ORGANIZATION		
	UNITED STA		COLE MOTING DOMES		
	JMBER OF	7	SOLE VOTING POWER		
	SHARES		0		
BENEFICIALLY OWNED BY		8	SHARED VOTING POWER		
	EACH		1,466,691 (1)		
	EPORTING PERSON	9	SOLE DISPOSITIVE POWER		
	WITH		0		
		10	SHARED DISPOSITIVE POWER		
			1,466,691 (1)		
11	AGGREGAT	E AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,466,691 (1)				
12	CHECK BOX	K IF TI	HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES		
13	PERCENT O	F CLA	ASS REPRESENTED BY AMOUNT IN ROW (11)		
	13.6% (2)				
14	TYPE OF RE	PORT	ING PERSON		
	IN				
(1) (Consists of (i) 3	71,950	Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II,		

- (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vii) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (vii) 71,774 Shares directly held by Bios Fund II NT, (viii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund II, Bios Fund II QP and Bios Directors. Bios Equity II is the general partner of Bios Fund II, Bios Fund II NT. Cavu Management is a general partner of Bios Equity I and Bios Equity II. Cavu Advisors, an entity controlled by Mr. Kreis, is the general partner of Cavu Management. As the manager of Cavu Advisors, Mr. Kreis may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II, Bios Fund II QP, Bios Fund II NT and Bios Directors.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

1	NAME OF REPORTI	NG PE	RSONS
	AARON GLENN LOU	JIS FL	ETCHER
2		PRIAT	E BOX IF A MEMBER OF A GROUP
	(a) □ (b) ⊠		
3	SEC USE ONLY		
4	SOURCE OF FUNDS		
	AF		
5	CHECK BOX IF DISC	CLOSU	RE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
6	CITIZENSHIP OR PL	ACE C	F ORGANIZATION
	UNITED STATES		
	UNITED STATES		
	NUMBER OF	7	SOLE VOTING POWER
	SHARES		-0-
BENEFICIALLY			
	OWNED BY		

EACH		8	SHARED VOTING POWER
	REPORTING		
	PERSON		1,466,691 (1)
	WITH	9	SOLE DISPOSITIVE POWER
			-0-
		10	SHARED DISPOSITIVE POWER
			1,466,691 (1)
11	AGGREGATE AMOU	JNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON
	1,466,691 (1)		
12	CHECK BOX IF THE	AGG	REGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT OF CLASS	REPI	RESENTED BY AMOUNT IN ROW (11)
	13.6% (2)		
14	TYPE OF REPORTIN	G PEF	RSON
	IN		

- (1) Consists of (i) 371,950 Shares directly held by Bios Fund I, (ii) 217,553 Shares directly held by Bios Fund I QP, (iii) 164,137 Shares directly held by Bios Fund II, (iv) 16,7801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (v) 536,163 Shares directly held by Bios Fund II QP, (vi) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP, (vii) 71,774 Shares directly held by Bios Fund II NT, (viii) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT, (ix) 26,093 Shares held by Bios Directors, in each case, as of the date hereof. Bios Equity I is the general partner of Bios Fund I, Bios Fund II QP and Bios Directors. Bios Equity II is the general partner of Bios Fund II, Bios Fund II NT. Bios Management is a general partner of Bios Equity I and Bios Equity II. Bios Advisors, an entity controlled by Aaron Glenn Louis Fletcher, is the general partner of Bios Management. As the manager of Bios Advisors, Mr. Fletcher may be deemed to have shared voting and/or dispositive power with respect to Shares and warrants to purchase Shares, in each case, directly or indirectly held by Bios Fund I, Bios Fund II, Bios Fund II QP, Bios Fund II QP, Bios Fund II NT and Bios Directors.
- (2) Based on 10,802,713 Shares, which consists of (i) 10,869,040 Shares as of November 3, 2023, as reported in the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2023, *minus* (ii) 145,348 Shares purchased in the aggregate by the Issuer from Bios Fund I and Bios Fund I QP on November 21, 2023, *plus* (iii) 16,801 Shares issuable upon the exercise of warrants directly held by Bios Fund II, (iv) 54,873 Shares issuable upon the exercise of warrants directly held by Bios Fund II QP and (v) 7,347 Shares issuable upon the exercise of warrants directly held by Bios Fund II NT.

Item 1. SECURITY AND ISSUER

This Amendment No. 2 hereby amends and supplements the statement on Schedule 13D originally filed with the SEC on June 15, 2020 (the "Original Schedule 13D"), as amended by the statement on Schedule 13D/A filed with the SEC on March 22, 2022 ("Amendment No. 1" and, together with the Original Schedule 13D, the "Prior Statements"). The securities to which the Schedule 13D relates are the shares of common stock, par value \$0.0001 per share (the "Shares"), of Lantern Pharma, Inc., a Delaware corporation (the "Issuer").

The Purpose of this Amendment No. 2 is to disclose the sale of Shares by each of Bios Fund I, LP ("Bios Fund I") and Bios Fund I QP, LP ("Bios Fund I QP") to the Issuer. On November 21, 2023, the Issuer entered into separate Securities Purchase Agreements with Bios Fund I and Bios Fund I QP pursuant to which the Company agreed to purchase from Bios Fund I and Bios Fund I QP an aggregate of 145,348 Shares at a purchase price of \$3.44 per share, for a total purchase price of \$499,997.12. Except as otherwise provided herein, each Item of the Prior Statements remains unchanged. Capitalized terms used herein but not defined in this Amendment No. 2 shall have the meaning ascribed to such term in the Prior Statements.

Item 3. SOURCE AND AMOUNT OF FUNDS OR OTHER CONSIDERATION

Item 3 of the Schedule 13D is hereby amended to add the following:

On November 21, 2023, the Issuer entered into separate Securities Purchase Agreements with Bios Fund I and Bios Fund I QP pursuant to which the Company agreed to purchase from Bios Fund I and Bios Fund I QP an aggregate of 145,348 Shares at a purchase price of \$3.44 per share, for a total purchase price of \$499,997.12. The agreements contain customary representations, warranties, and covenants for agreements of such nature. The transactions under the agreements closed on November 29, 2023. The motivations of the Reporting Persons to enter into these transactions did not relate to the activities or operations of the Company and was for the purpose of generating working capital for the operations of the Reporting Persons and ensuring adequate liquidity.

Item 5. INTEREST IN SECURITIES OF THE ISSUER

Item 5 of the Schedule 13D is hereby amended and restated in its entirety to read as follows:

- (a) See rows (11) and (13) of the cover pages to this Amendment No. 2 for the aggregate number of Shares and percentages of the Shares beneficially owned by each of the Reporting Persons. See footnotes (1) and (2), as applicable, of the cover pages to this Schedule 13D/A for the calculations used in determining the percentages of Shares beneficially owned by each of the Reporting Persons.
- (b) See rows (7) through (10) of the cover pages to this Amendment No. 2 for the number of Shares as to which each Reporting Person has the sole or shared power to vote or direct the vote and sole or shared power to dispose or to direct the disposition.
- (c) Except as described in this Amendment No. 2, none of the Reporting Persons, nor, to the best of the Reporting Persons' knowledge, any of their respective executive officers or directors, as applicable, has acquired or disposed of, any securities of the Issuer from the 60 days prior to the date of the event which requires the filing of this Amendment No. 2 up through the date hereof.
- (d) Except as described in this Amendment No. 2 to the knowledge of the Reporting Persons, only the reporting Persons have the right to receive or the power to direct receipt of dividends from, or proceeds from the sale of, the Shares reported by the Schedule 13D.
- (e) Not applicable.

SIGNATURES

After reasonable inquiry and to the best of his or its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: December 1, 2023

BIOS FUND I, LP

By: Bios Equity Partners, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS FUND I QP, LP

By: Bios Equity Partners, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BP DIRECTORS, LP

By: Bios Equity Partners, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz

Daniel Schwarz Attorney-in-Fact

BIOS FUND II, LP

By: Bios Equity Partners II, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS FUND II QP, LP

By: Bios Equity Partners II, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS FUND II NT, LP

By: Bios Equity Partners II, LP, its general partner

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP,

its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS EQUITY PARTNERS II, LP

By: Cavu Management, LP, its general partner

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

By: Bios Capital Management, LP, its general partner

By: Bios Advisors GP, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

CAVU MANAGEMENT, LP

By: Cavu Advisors, LLC, its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS CAPITAL MANAGEMENT, LP

By: Bios Advisors GP, LLC its general partner

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

${\bf CAVU\ ADVISORS, LLC}$

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

BIOS ADVISORS GP, LLC

By: /s/ Daniel Schwarz
Daniel Schwarz
Attorney-in-Fact

/s/ Daniel Schwarz

DANIEL SCHWARZ, as Attorney-in-Fact for Leslie Wayne Kreis, Jr.

/s/ Daniel Schwarz

DANIEL SCHWARZ, as Attorney-in-Fact for Aaron Glenn Louis Fletcher