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

SCHEDULE 13G*

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO § 240.13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO § 240.13d-2

(Amendment No. 3)*

Applied Optoelectronics, Inc.
(Name of Issuer)
Common Stock, par value \$0.001 per share (the "Shares")
(Title of Class of Securities)
03823U102
(CUSIP Number)
December 31, 2021
(Date of Event Which Requires Filing of the Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- Rule 13d-1(d)

The information required in 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).

^{*}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 the disclosures provided in a prior cover page.

1.	NAME OF REPORTING PERSONS			
	Citadel Advisors LLC			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)			
3.	SEC USE ONLY			
4.	CITIZENSHIP OR PLA	CE OF ORGANIZATION		
	Delaware			
	5.	SOLE VOTING POWER		
NII IN AI	DED OF	0		
SHA BENEF	BER OF ARES 6.	SHARED VOTING POWER 1,886,703 Shares		
EA	ACH 7.	SOLE DISPOSITIVE POWER		
PEF	ORTING RSON	0		
W	1TH 8.	SHARED DISPOSITIVE POWER		
		See Row 6 above		
9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	See Row 6 above			
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	$6.5\%^{1}$			
12.	12. TYPE OF REPORTING PERSON			
	IA; 00; HC			

The percentages reported in this Schedule 13G are based upon 29,004,200 Shares outstanding composed of (i) 27,297,647 Shares outstanding as of October 29, 2021 (according to the issuer's Form 10-Q as filed with the Securities and Exchange Commission on November 4, 2021), and (ii) approximately 1,706,553 Shares issuable upon the conversion of certain convertible bonds held by affiliates of the Reporting Persons.

1.	NAME OF REPORTING PERSONS				
	Citadel Advisors Holdings LP				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)				
3.	SEC USE ONLY	•			
4.	CITIZENSHIP C	OR PLACE	OF ORGANIZATION		
	Delaware				
		5.	SOLE VOTING POWER		
MINAD	JED OF		0		
NUMB SHA	RES	6.	SHARED VOTING POWER		
OWNE			1,886,703 Shares		
EA REPOI	CH RTING	7.	SOLE DISPOSITIVE POWER		
PER: WI	SON		0		
W1		8.	SHARED DISPOSITIVE POWER		
			See Row 6 above		
9.	AGGREGATE A	MOUNT I	BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	See Row 6 abov	e			
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	6.5%				
12.	TYPE OF REPO	RTING PE	RSON		
	PN; HC				

1.	NAME OF REP	ORTING P	ERSONS	
	Citadel GP LLC	С		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)			
3.	SEC USE ONLY	Ĭ.		
4.	CITIZENSHIP (OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NILINA	DED OF		0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
OWN	ICIALLY ED BY		1,886,703 Shares	
	ACH PRTING	7.	SOLE DISPOSITIVE POWER	
	RSON ITH _		0	
		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE A	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abov	ve .		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
6.5%				
12.	TYPE OF REPO	ORTING PE	ERSON	
	00; HC			

1.	NAME OF REI	PORTING P	ERSONS	
	Citadel Securi	ties LLC		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)			
3.	SEC USE ONL	Y		
4.	CITIZENSHIP	OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NII IN 41	DED OF		0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
	FICIALLY NED BY		199,129 Shares	
	ACH DRTING	7.	SOLE DISPOSITIVE POWER	
	RSON /ITH		0	
		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abo	ve		
10.	CHECK IF TH	E AGGREG	ATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
0.7%				
12.	TYPE OF REP	ORTING PE	ERSON	
	BD; OO			

1.	NAME OF REPORTING PERSONS			
	Citadel Securit	ies Group l	LP	
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (
3.	SEC USE ONLY	Y		
4.	CITIZENSHIP (OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NII 11			0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
	ICIALLY ED BY		205,369 Shares	
	ACH ORTING	7.	SOLE DISPOSITIVE POWER	
	RSON TTH		0	
		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE A	AMOUNT :	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abov	ve		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11.	PERCENT OF O	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	0.7%			
12.	TYPE OF REPO	ORTING PE	ERSON	
	PN; HC			

1.	NAME OF REPORTING PERSONS			
	Citadel Securiti	es GP LL		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b)			
3.	SEC USE ONLY	7		
4.	CITIZENSHIP (OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NITIM	BER OF		0	
SH	ARES	6.	SHARED VOTING POWER	
OWN	FICIALLY NED BY		205,369 Shares	
REPO	ACH ORTING	7.	SOLE DISPOSITIVE POWER	
	RSON /ITH		0	
		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE A	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abov	re		
10.	CHECK IF THE	AGGREC	ATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	C
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.7%			
12.	TYPE OF REPO	ORTING PI	ERSON	
	00; HC			

1.	NAME OF REP	ORTING P	ERSONS	
	Kenneth Griffi	n		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a (b)			
3.	SEC USE ONLY	Y		
4.	CITIZENSHIP	OR PLACE	OF ORGANIZATION	
	U.S. Citizen			
		5.	SOLE VOTING POWER	
	DED OF		0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
	ICIALLY ED BY		2,092,072 Shares	
	ACH ORTING	7.	SOLE DISPOSITIVE POWER	
PEF	RSON TTH		0	
•••		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE A	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abov	⁄e		
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
7.2%				
12.	TYPE OF REPO	ORTING PE	ERSON	
	IN; HC			

Item 1(a). Name of Issuer:

Applied Optoelectronics, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

13139 Jess Pirtle Blvd., Sugar Land, TX 77478 United States

Item 2(a). Name of Person Filing:

This Schedule 13G is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Advisors Holdings LP ("CAH"), Citadel GP LLC ("CGP"), Citadel Securities LLC ("Citadel Securities"), Citadel Securities Group LP ("CALC4"), Citadel Securities GP LLC ("CSGP") and Mr. Kenneth Griffin (collectively with Citadel Advisors, CAH, CGP, Citadel Securities, CALC4 and CSGP, the "Reporting Persons") with respect to the Shares of the above-named issuer owned by Citadel Equity Fund Ltd., a Cayman Islands limited company ("CEFL"), Citadel Quantitative Strategies Master Fund Ltd., a Cayman Islands company ("QSMF"), CRBU Holdings LLC, a Delaware limited liability company ("CRBH"), and Citadel Securities. Such owned Shares may include other instruments exercisable for or convertible into Shares.

Citadel Advisors is the portfolio manager for CEFL and QSMF. CAH is the sole member of Citadel Advisors. CGP is the general partner of CAH. CALC4 is the non-member manager of CRBH and Citadel Securities. CSGP is the general partner of CALC4. Mr. Griffin is the President and Chief Executive Officer of CGP, and owns a controlling interest in CGP and CSGP.

The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).

Item 2(b). Address of Principal Business Office or, if none, Residence:

The address of the principal business office of each of the Reporting Persons is 131 S. Dearborn Street, 32nd Floor, Chicago, Illinois 60603.

Item 2(c). Citizenship:

Each of Citadel Advisors, CGP, Citadel Securities and CSGP is organized as a limited liability company under the laws of the State of Delaware. Each of CALC4 and CAH is organized as a limited partnership under the laws of the State of Delaware. Mr. Griffin is a U.S. citizen.

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001 per share

Item 2(e). CUSIP Number:

03823U102

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tem 3.	If this	stateme	nt is filed pursuant to §§ 240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:
	(a)		Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
	(b)		Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c);
	(c)		Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c);
	(d)		Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
	(e)		An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
	(f)		An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
	(g)		A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
	(h)		A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
	(i)		A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
	(j)		A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
	(k)		Group, in accordance with § 240.13d-1(b)(1)(ii)(K).
tem 4.		rship:	n-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
	A.	Citade	l Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC
		(a)	Each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own 1,886,703 Shares.
		(b)	The number of Shares that each of Citadel Advisors LLC, Citadel Advisors Holdings LP and Citadel GP LLC may be deemed to beneficially own constitutes 6.5% of the Shares outstanding.
		(c)	Number of Shares as to which such person has:
			(i) sole power to vote or to direct the vote: 0
			(ii) shared power to vote or to direct the vote: 1,886,703

sole power to dispose or to direct the disposition of: $\,0\,$

shared power to dispose or to direct the disposition of: 1,886,703

(iii)

(iv)

- B. Citadel Securities LLC
 - (a) Citadel Securities LLC may be deemed to beneficially own 199,129 Shares.
 - (b) The number of Shares that Citadel Securities LLC may be deemed to beneficially own constitutes 0.7% of the Shares outstanding.
 - (c) Number of shares of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 199,129
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 199,129
- C. Citadel Securities Group LP and Citadel Securities GP LLC
 - (a) Each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own 205,369 Shares.
 - (b) The number of Shares that each of Citadel Securities Group LP and Citadel Securities GP LLC may be deemed to beneficially own constitutes 0.7% of the Shares outstanding.
 - (c) Number of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 205,369
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 205,369

D. Kenneth Griffin

- (a) Mr. Griffin may be deemed to beneficially own 2,092,072 Shares.
- (b) The number of Shares that Mr. Griffin may be deemed to beneficially own constitutes 7.2% of the Shares outstanding.
- (c) Number of Shares as to which such person has:
 - (i) sole power to vote or to direct the vote: 0
 - (ii) shared power to vote or to direct the vote: 2,092,072
 - (iii) sole power to dispose or to direct the disposition of: 0
 - (iv) shared power to dispose or to direct the disposition of: 2,092,072

Item 5. Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following.

Item 6. Ownership of More Than Five Percent on Behalf of Another Person:

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company:

Not Applicable

Item 8. Identification and Classification of Members of the Group:

Not Applicable

Item 9. Notice of Dissolution of Group:

Not Applicable

Item 10. Certifications:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Dated February 14, 2022.

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SIGNATURE

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

CITADEL SECURITIES LLC CITADEL ADVISORS LLC By: /s/ Guy Miller By: /s/ Gregory Johnson Guy Miller, Authorized Signatory Gregory Johnson, Authorized Signatory CITADEL SECURITIES GROUP LP CITADEL ADVISORS HOLDINGS LP By: /s/ Guy Miller By: /s/ Gregory Johnson Guy Miller, Authorized Signatory Gregory Johnson, Authorized Signatory CITADEL SECURITIES GP LLC CITADEL GP LLC By: /s/ Guy Miller By: /s/ Gregory Johnson Guy Miller, Authorized Signatory Gregory Johnson, Authorized Signatory KENNETH GRIFFIN By: /s/ Gregory Johnson Gregory Johnson, attorney-in-fact*

Gregory Johnson is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously filed with the Securities and Exchange Commission, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Advisors LLC on Schedule 13G for Jaws Acquisitions Corp. on February 1, 2021.