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

SCHEDULE 13G\*

(Rule 13d-102)

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

(Amendment No. 5)\*

Applied Optoelectronics, Inc.
(Name of Issuer)
Common Stock, \$0.001 par value per share (the "Shares")
(Title of Class of Securities)
(Title of Class of Securities)
03823U102
(CUSIP Number)
December 31, 2023
(Date of Event Which Requires Filing of the Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
<ul><li>□ Rule 13d-1(c)</li><li>□ Rule 13d-1(c)</li></ul>
□ Rule 13d-1(d)
* 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.
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).

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1.	NAME OF REPORTING PERSONS			
	Citadel Advisors LLC			
2.	CHECK THE	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a) □ (b) □
3.	SEC USE ONI	У		
4.	CITIZENSHIP	OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NILIME	BER OF		0	
SHA	RES	6.	SHARED VOTING POWER	
OWN	CIALLY ED BY		2,267 Shares	
	CH RTING	7.	SOLE DISPOSITIVE POWER	
PER WI	SON TH		0	
		8.	SHARED DISPOSITIVE POWER	
			See Row 6 above	
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	See Row 6 abo	ove		
10.	CHECK IF TH	E AGGREC	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.0%1			
12.	TYPE OF REP	ORTING PI	ERSON	
	IA: OO: HC			

CUSIP No. 03823U102

The percentages reported in this Schedule 13G are based upon 43,652,560 Shares outstanding comprised of (i) 35,536,578 Shares outstanding as of November 6, 2023 (according to the issuer's Form 10-Q as filed with the Securities and Exchange Commission on November 9, 2023), (ii) 7,649,614 Shares sold by the issuer in an "at the market" offering (according to the issuer's Form 8-K as filed with the Securities and Exchange Commission on November 28, 2023) and (iii) 466,368 Shares issued pursuant to certain exchange agreements (according to the Issuer's Form 8-K as filed with the Securities and Exchange Commission on December 1, 2023).

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1.	1. NAME OF REPORTING PERSONS			
	Citadel Advisor	s Holding	s LP	
2.	CHECK THE A	PPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONLY	7		
4.	CITIZENSHIP (	OR PLACE	E OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NILIMA	DED OF		0	
SHA	BER OF ARES	6.	SHARED VOTING POWER	
OWN	ICIALLY ED BY		2,267 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			
10.	CHECK IF THE	AGGREC	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.0%			
12.	TYPE OF REPO	RTING P	ERSON	
	PN: HC			

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1.	NAME OF REPORTING PERSONS			
	Citadel GP LL	C		
2.	CHECK THE A	PPROPRI <i>A</i>	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONLY	Y		
4.	CITIZENSHIP (	OR PLACE	OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NILIME	BER OF		0	
SHA BENEFI	RES ICIALLY ED BY	6.	SHARED VOTING POWER  2,267 Shares	
EA REPO	CH RTING SON	7.	SOLE DISPOSITIVE POWER  0	
W	TH _	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	E AGGREG	SATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	С
11.	PERCENT OF O	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	0.0%			
12.	TYPE OF REPO	ORTING PE	ERSON	
	оо; нс			

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1.	NAME OF REI	PORTING P	PERSONS	
	Citadel Securi	ties LLC		
2.	CHECK THE A	APPROPRI <i>i</i>	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONL	Y		
4.	CITIZENSHIP	OR PLACE	E OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NII IN	MDED OF		0	
SH	MBER OF HARES	6.	SHARED VOTING POWER	
	FICIALLY NED BY		504,073 Shares	
	EACH ORTING	7.	SOLE DISPOSITIVE POWER	
PE	ERSON WITH		0	
`	WIII	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 THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11.	PERCENT OF	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	1.2%			
12.	TYPE OF REP	ORTING PI	ERSON	
	BD; OO			

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1.	NAME OF RE	PORTING I	PERSONS	
	Citadel Securi	ities Group	LP	
2.	CHECK THE	APPROPRIA	ATE BOX IF A MEMBER OF A GROUP	(a)
3.	SEC USE ONI	LY.		
4.	CITIZENSHIP	OR PLACE	E OF ORGANIZATION	
	Delaware			
		5.	SOLE VOTING POWER	
NII N	DED OF		0	
SH BENEF	BER OF ARES FICIALLY VED BY	6.	SHARED VOTING POWER 504,073 Shares	
E. REPO	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	ove		
10.	CHECK IF TH	IE AGGREC	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11.	PERCENT OF	CLASS RE	PRESENTED BY AMOUNT IN ROW (9)	
	1.2%			
12.	TYPE OF REP	ORTING PI	ERSON	
	PN; HC			

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1.	NAME OF REPORTING PERSONS					
	Citadel Securiti	Citadel Securities GP LLC				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a)			
3.	SEC USE ONLY	SEC USE ONLY				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
		5.	SOLE VOTING POWER			
NITIME	BER OF		0			
SHA BENEFI	RES CIALLY ED BY	6.	SHARED VOTING POWER  504,073 Shares			
EACH REPORTING PERSON WITH		7.	SOLE DISPOSITIVE POWER  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					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.2%					
12.	TYPE OF REPORTING PERSON					
	оо; нс					

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1. NAME OF		REPORTING PERSONS			
	Kenneth Griff	in			
2.	CHECK THE	APPROPRI <i>i</i>	ATE BOX IF A MEMBER OF A GROUP	(a)	
3.	SEC USE ONI	Y			
4.	CITIZENSHIP	ENSHIP OR PLACE OF ORGANIZATION			
	U.S. Citizen				
		5.	SOLE VOTING POWER		
			0		
SH BENE	IBER OF IARES FICIALLY	6.	SHARED VOTING POWER		
OWNED BY EACH REPORTING PERSON WITH		7.	506,340 Shares  SOLE DISPOSITIVE POWER		
		7.	0		
		8.	SHARED DISPOSITIVE POWER		
			See Row 6 above		
9.	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	See Row 6 above				
10.	CHECK IF TH	E AGGREC	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11.	PERCENT OF	ERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	1.2%				
12.	TYPE OF REP	TYPE OF REPORTING PERSON			
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 Quantitative Strategies Master Fund Ltd., a Cayman Islands company ("QSMF"), and Citadel Securities. Such owned Shares may include other instruments exercisable for or convertible into Shares.

Citadel Advisors is the portfolio manager for QSMF. CAH is the sole member of Citadel Advisors. CGP is the general partner of CAH. CALC4 is the non-member manager of 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 or Principal Business Office or, if none, Residence:

The address of each of the Reporting Persons is Southeast Financial Center, 200 S. Biscayne Blvd., Suite 3300, Miami, Florida 33131.

#### 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, \$0.001 par value per share

#### Item 2(e). CUSIP Number:

03823U102

tem 3.	If this	s stateme	ent 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. 780);
	(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).
	If fili	ng as a no	on-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
tem 4.	Owne	ership:	
	A.	Citade	el 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 2,267 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 0.0% 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

shared power to vote or to direct the vote: 2,267

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

shared power to dispose or to direct the disposition of: 2,267

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(ii)

(iii)

(iv)

- B. Citadel Securities LLC
  - (a) Citadel Securities LLC may be deemed to beneficially own 504,073 Shares.
  - (b) The number of Shares that Citadel Securities LLC may be deemed to beneficially own constitutes 1.2% 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: 504,073
    - (iii) sole power to dispose or to direct the disposition of: 0
    - (iv) shared power to dispose or to direct the disposition of: 504,073
- 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 504,073 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 1.2% 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: 504,073
    - (iii) sole power to dispose or to direct the disposition of: 0
    - (iv) shared power to dispose or to direct the disposition of: 504,073

#### D. Kenneth Griffin

- (a) Mr. Griffin may be deemed to beneficially own 506,340 Shares.
- (b) The number of Shares that Mr. Griffin may be deemed to beneficially own constitutes 1.2% 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: 506,340
  - (iii) sole power to dispose or to direct the disposition of: 0
  - (iv) shared power to dispose or to direct the disposition of: 506,340

## 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.  $\square$ 

## 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.

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## **SIGNATURE**

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.

Dated February 14, 2024.

CITA	DEL SECURITIES LLC	CITADEL ADVISORS	LLC
Ву:	/s/ Guy Miller Guy Miller, Authorized Signatory	By: /s/ Seth Levy Seth Levy, Author	orized Signatory
CITA	DEL SECURITIES GROUP LP	CITADEL ADVISORS	HOLDINGS LP
Ву:	/s/ Guy Miller Guy Miller, Authorized Signatory	By: /s/ Seth Levy Seth Levy, Author	orized Signatory
CITA	DEL SECURITIES GP LLC	CITADEL GP LLC	
Ву:	/s/ Guy Miller Guy Miller, Authorized Signatory	By: /s/ Seth Levy Seth Levy, Author	orized Signatory
		KENNETH GRIFFIN	
		By: /s/ Seth Levy Seth Levy, attorr	ney-in-fact*

<sup>\*</sup> Seth Levy 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 Allakos Inc. on October 13, 2023.