IPG PHOTONICS CORP Form SC 13G January 18, 2008

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.)*

> IPG Photonics Corporation (Name of Issuer)

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

44980X 10 9 (CUSIP Number)

December 31, 2007 (Date of Event Which Requires Filing of this Statement)

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

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

CUSIP No. 44980X 10 9

1.	Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) IP Fibre Devices (UK) Ltd.			
2.	Check the Appropriate Box if a Member of a Group			
	(a) (b)	O X		
		A		
3.	SEC Use Only			
4.	Citizenship or Place of Organization United Kingdom			
Number of Shares Beneficially Owned by Each Reporting Person With:	5.		Sole Voting Power 0	
	6.		Shared Voting Power 8,032,002 (See Item 4)	
	7.		Sole Dispositive Power 0	
	8.		Shared Dispositive Power 8,032,002 (See Item 4)	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 8,032,002 (See Item 4)			
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o			
11.	Percent of Class Represented by Amount in Row (9) 18.3% (See Item 4)			
12.	Type of Reporting Per CO	rson		

2

TABLE OF CONTENTS

Item 1 Item 2 Item 3. If this statement is filed pursuant to 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: Item 4. Ownership Item 5. Ownership of Five Percent or Less of a Class Item 6. Ownership of More than Five Percent on Behalf of Another Person Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person Item 8. Identification and Classification of Members of the Group Item 9. Notice of Dissolution of Group Item 10. Certification SIGNATURE

3

Item 1.				
	(a)	Name of Issuer		
		IPG Photonics Corporation		
	(b)	Address of Issuer s Principal Executive Offices		
		50 Old Webster Road		
		Oxford, Massachuse	tts 01540	
Item 2.				
	(a)	Name of Person Filing IP Fibre Devices (UK) Ltd. Address of Principal Business Office or, if none, Residence c/o IPG Photonics Corporation 50 Old Webster Road Oxford, Massachusetts 01540 Citizenship		
	(b)			
	(c)			
		United Kingdom		
	(d)	Title of Class of Securities		
		Common Stock, par value \$0.0001 per share		
	(e)	CUSIP Number	CUSIP Number	
		44980X 10 9		
Item 3.	If this statemen filing is a:	t is filed pursuant to	240.13d-1(b) or 240.13d-2(b) or (c), check whether the person	
	(a)	0	Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).	
	(b)	0	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).	
	(c)	0	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).	
	(d)	0	Investment company registered under section 8 of the	
			Investment Company Act of 1940 (15 U.S.C 80a-8).	
	(e)	0	An investment adviser in accordance with $240.124.1(h)(1)(i)(T)$	
	(f)	2	240.13d-1(b)(1)(ii)(E); An employee benefit plan or endowment fund in	
	(f)	0	accordance with 240.13d-1(b)(1)(ii)(F);	
	(g)	0	A parent holding company or control person in	
	(g)	0	accordance with 240.13d-1(b)(1)(ii)(G);	
	(h)	0	A savings associations as defined in Section 3(b) of the	
	(11)	0	Federal Deposit Insurance Act (12 U.S.C. 1813);	
	(i)	0	A church plan that is excluded from the definition of an	
	(1)	0	investment company under section $3(c)(14)$ of the	
			Investment Company Act of 1940 (15 U.S.C. 80a-3);	
	(j)	0	Group, in accordance with $240.13d-1(b)(1)(ii)(J)$.	

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a)	Amount beneficially owned:	
	8,032,002 (1)	
(b)	Percent of class:	
	18.3% (1)(2)	

(c) Number of shares as to which the person has:

(i)

Sole power to vote or to direct the vote

(ii) 0
(iii) Shared power to vote or to direct the vote 8,032,002 (1)
(iii) Sole power to dispose or to direct the disposition of 0
(iv) Shared power to dispose or to direct the disposition of 8,032,002 (1)

(1) Dr. Valentin P. Gapontsev is the managing director of, and has a 53% economic interest in, the Reporting Person. Dr. Gapontsev has voting and investment power with respect to these shares. Dr. Gapontsev disclaims beneficial ownership of these shares except to the extent of his pecuniary interest therein.

(2) Based on 44,010,341 shares of Common Stock of IPG Photonics Corporation outstanding as of December 31, 2007.

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 five percent of the class of securities, check the following o.

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 or Control Person

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. Certification Not applicable.

SIGNATURE

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

January 11, 2008 Date

IP FIBRE DEVICES (UK) LTD. By: /s/ Valentin P. Gapontsev Name: Valentin P. Gapontsev Title: Managing Director

6