IPG PHOTONICS CORP Form SC 13G/A March 24, 2014

SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Under the Securities Exchange Act of 1934 (Amendment No. 2) *

IPG Photonics Corp

(Name of Issuer)

Common Stock

(Title of Class of Securities)

44980X109

(CUSIP Number)

March 12, 2014

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

(Date of Event Which Requires Filing of this Statement)

- [X] Rule 13d-1(b)
- [_] Rule 13d-1(c)
- [_] 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).

Page 1 of 10

CUSIP No.	44980)X1(13G		
1 NAME	OF REPC	RT:	ING PERSON		
Arti	san Par	tne	ers Limited Partnership		
2 CHECK THE APPROPRIATE BOX IF A (see Instructions)			DPRIATE BOX IF A MEMBER OF A GROUP	(a) (b)	[_]
Not .	Applica	able	9		
3 SEC U	SE ONLY	7			
4 CITIZ	 ENSHIP	OR	PLACE OF ORGANIZATION		
Dela	ware				
		5	SOLE VOTING POWER		
NUMBER O			None		
SHARES BENEFICIA	LLY	6	SHARED VOTING POWER		
OWNED B EACH			3,620,909		
REPORTING PERSON		7	SOLE DISPOSITIVE POWER		
WITH			None		
		8	SHARED DISPOSITIVE POWER		
			3,892,196		
9 AGGRE	GATE AM	10Ul	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
3,89	2 , 196				
	BOX IF Instruc		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
Not .	Applica	able	e 		
11 PERCE	NT OF C	CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)		
7.5%					
	OF REPO Instruc		ING PERSON ons)		
IA					

Page 2 of 10

1 NAME OF REPO	ORTING PERSON					
Artisan In	vestments GP LLC					
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) (a) (b)						
Not Applica	able					
3 SEC USE ONL						
4 CITIZENSHIP	OR PLACE OF ORGANIZATION					
Delaware						
	5 SOLE VOTING POWER					
NUMBER OF	None					
SHARES BENEFICIALLY OWNED BY	6 SHARED VOTING POWER					
EACH	3,620,909					
REPORTING PERSON WITH	7 SOLE DISPOSITIVE POWER					
VV I III	None					
	8 SHARED DISPOSITIVE POWER					
	3,892,196					
9 AGGREGATE AI	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
3,892,196						
10 CHECK BOX II	F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES [_]					
Not Applica	able					
11 PERCENT OF (CLASS REPRESENTED BY AMOUNT IN ROW (9)					
7.5%						
	ORTING PERSON					
HC						
	Page 3 of 10					
CUSIP No. 4498	0X109 13G					
1 NAME OF REPO						

3

Artisan Pa	rtners Holdings LP					
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)						
Not Applica	Not Applicable					
3 SEC USE ONL	Y					
4 CITIZENSHIP	OR PLACE OF ORGANIZATION					
Delaware						
	5 SOLE VOTING POWER					
NUMBER OF	None					
SHARES BENEFICIALLY OWNED BY	6 SHARED VOTING POWER					
EACH REPORTING	3,620,909					
PERSON WITH	7 SOLE DISPOSITIVE POWER					
WIII	None					
	8 SHARED DISPOSITIVE POWER					
	3,892,196					
9 AGGREGATE AN 3,892,196	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
(see Instruc		[_]				
Not Applica	able 					
	CLASS REPRESENTED BY AMOUNT IN ROW (9)					
7.5%						
12 TYPE OF REPO	ORTING PERSON ctions)					
HC						
	Page 4 of 10					
CUSIP No. 44980	0X109 13G					

1 NAME OF REPORTING PERSON

Artisan Partners Asset Management Inc.

2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)		
	Not Appl	icable	
3	SEC USE O	NLY	
4	CITIZENSH	IP OR PLACE OF ORGANIZATION	
	Delaware		
		5 SOLE VOTING POWER	
NUMBER OF		None	
BEN		6 SHARED VOTING POWER	
	WNED BY EACH	3,620,909	
REPORTING PERSON			
	WITH	None	
		8 SHARED DISPOSITIVE POWER	
		3,892,196	
9	AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,892,19	6	
10		IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ructions)	[_]
	Not Appl	icable	
11	PERCENT O	F CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	7.5%		
12		EPORTING PERSON ructions)	
	НС		
		5 5 40	
		Page 5 of 10	
Ite	m 1(a) N	ame of Issuer:	
		IPG Photonics Corp	
Ite	m 1(b) A	ddress of Issuer's Principal Executive Offices:	
		50 Old Webster Road, Oxford, MA 01540	
Ite	m 2(a) N	Tame of Person Filing:/1/	

Artisan Partners Limited Partnership ("APLP")
Artisan Investments GP LLC ("Artisan Investments")
Artisan Partners Holdings LP ("Artisan Holdings")
Artisan Partners Asset Management Inc. ("APAM")

Item 2(b) Address of Principal Business Office:

APLP, Artisan Investments, Artisan Holdings, and APAM are all located at:

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

APLP is a Delaware limited partnership Artisan Investments is a Delaware limited liability company Artisan Holdings is a Delaware limited partnership APAM is a Delaware corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

44980X109

- (e) APLP is an investment adviser registered under section 203 of the Investment Advisers Act of 1940.
- (g) Artisan Holdings is the sole limited partner of APLP and the sole member of Artisan Investments; Artisan Investments is the general partner of APLP; APAM is the general partner of Artisan Holdings.

/1/ This amendment to the Schedule 13G is being filed solely as a result of the change in control of Artisan Partners Limited Partnership. As of March 12, 2014, Artisan Investment Corporation, ZFIC, Inc., Andrew A. Ziegler and Carlene M. Ziegler are no longer deemed to be controlling persons of Artisan Partners Limited Partnership and are no longer joint filers with the other reporting persons.

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Item 4 Ownership (at March 12, 2014):

- (a) Amount owned "beneficially" within the meaning of rule 13d-3: 3,892,196
- (b) Percent of class:

7.5% (based on 51,954,978 shares outstanding as of February $25,\ 2014$)

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

(i) sole power to vote or to direct the vote:

None

(ii) shared power to vote or to direct the vote:

3,620,909

(iii) sole power to dispose or to direct the disposition
 of:

None

(iv) shared power to dispose or to direct the disposition of:

3,892,196

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

Not Applicable

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

The shares reported herein have been acquired on behalf of discretionary clients of APLP. Persons other than APLP are entitled to receive all dividends from, and proceeds from the sale of, those shares. None of those persons, to the knowledge of APLP, Artisan Holdings, APAM, or Artisan Investments has an economic interest in more than 5% of the class.

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Not Applicable

Item 10 Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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 my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: March 24, 2014

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President of Artisan
Partners Asset Management Inc.
Vice President of Artisan
Investments GP LLC

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Exhibit Index

Exhibit 1 Joint Filing Agreement dated March 24, 2014 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, and Artisan Partners Asset Management Inc.

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EXHIBIT 1

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: March 24, 2014

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez

Senior Vice President of Artisan Partners Asset Management Inc.

Vice President of Artisan Investments GP LLC

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