

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500-SF.	OMB Nos. 1210-0110 1210-0089 <div style="border: 1px solid black; text-align: center; padding: 5px; font-weight: bold; font-size: 1.2em;">2012</div> This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012			
A This return/report is for:	☒ a single-employer plan	☐ a multiple-employer plan (not multiemployer)	☐ a one-participant plan
B This return/report is:	☒ the first return/report	☐ the final return/report	
	☐ an amended return/report	☐ a short plan year return/report (less than 12 months)	
C Check box if filing under:	☒ Form 5558	☐ automatic extension	☐ DFVC program
	☐ special extension (enter description)		

Part II Basic Plan Information —enter all requested information			
1a Name of plan STINGRAY OPTICS LLC CASH BALANCE PENSION PLAN AND TRUST		1b Three-digit plan number (PN) ▶	002
		1c Effective date of plan 01/01/2012	
2a Plan sponsor's name and address; include room or suite number (employer, if for a single-employer plan) STINGRAY OPTICS LLC 310 MARLBORO STREET KEENE, NH 03431		2b Employer Identification Number (EIN) 75-3197332 2c Sponsor's telephone number 603-358-5577 2d Business code (see instructions) 339900	
3a Plan administrator's name and address ☒ Same as Plan Sponsor Name ☐ Same as Plan Sponsor Address		3b Administrator's EIN 3c Administrator's telephone number	
4 If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN, and the plan number from the last return/report. a Sponsor's name		4b EIN 4c PN	
5a Total number of participants at the beginning of the plan year		5a	6
b Total number of participants at the end of the plan year.....		5b	6
c Number of participants with account balances as of the end of the plan year (defined benefit plans do not complete this item).....		5c	
6a Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)		☒ Yes ☐ No	
b Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.).....		☒ Yes ☐ No	

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.			
Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.			
SIGN HERE	Filed with authorized/valid electronic signature.	08/08/2013	STEPHANIE LUDWIG
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	08/08/2013	STEPHANIE LUDWIG
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
Preparer's name (including firm name, if applicable) and address; include room or suite number (optional)			Preparer's telephone number (optional)

Part III Financial Information			
7	Plan Assets and Liabilities		
		(a) Beginning of Year	(b) End of Year
a	Total plan assets	7a	0
b	Total plan liabilities	7b	138978
c	Net plan assets (subtract line 7b from line 7a)	7c	0
8	Income, Expenses, and Transfers for this Plan Year		
		(a) Amount	(b) Total
a	Contributions received or receivable from:		
(1)	Employers	8a(1)	138978
(2)	Participants	8a(2)	0
(3)	Others (including rollovers)	8a(3)	0
b	Other income (loss)	8b	0
c	Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c	138978
d	Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	0
e	Certain deemed and/or corrective distributions (see instructions)	8e	0
f	Administrative service providers (salaries, fees, commissions)	8f	0
g	Other expenses	8g	0
h	Total expenses (add lines 8d, 8e, 8f, and 8g)	8h	0
i	Net income (loss) (subtract line 8h from line 8c)	8i	138978
j	Transfers to (from) the plan (see instructions)	8j	0

Part IV Plan Characteristics	
9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1C
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions				
10	During the plan year:	Yes	No	Amount
a	Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program)	10a	X	
b	Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b	X	
c	Was the plan covered by a fidelity bond?	10c	X	163000
d	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d	X	
e	Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e	X	
f	Has the plan failed to provide any benefit when due under the plan?	10f	X	
g	Did the plan have any participant loans? (If "Yes," enter amount as of year end.)	10g	X	
h	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		
i	If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i		

Part VI Pension Funding Compliance			
11	Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and line 11a below)	☒ Yes ☐ No	
11a	Enter the amount from Schedule SB line 39	11a	0
12	Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ..	☐ Yes ☒ No	
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)			
a	If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month Day Year		
If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.			
b	Enter the minimum required contribution for this plan year	12b	

c Enter the amount contributed by the employer to the plan for this plan year.....	12c	
d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount)	12d	
e Will the minimum funding amount reported on line 12d be met by the funding deadline?.....	☐ Yes ☐ No ☐ N/A	

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year?	☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year	13a
b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?.....	☐ Yes ☒ No
c If during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)	
13c(1) Name of plan(s):	13c(2) EIN(s)

Part VIII Trust Information (optional)

14a Name of trust	14b Trust's EIN

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>STINGRAY OPTICS LLC CASH BALANCE PENSION PLAN AND TRUST</u>	B Three-digit plan number (PN) ▶ <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>STINGRAY OPTICS LLC</u>	D Employer Identification Number (EIN) <u>75-3197332</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>12</u> Day <u>31</u> Year <u>2012</u>	
2 Assets:	
a Market value	2a <u>0</u>
b Actuarial value	2b <u>0</u>
3 Funding target/participant count breakdown:	
a For retired participants and beneficiaries receiving payment.....	3a <u>0</u>
b For terminated vested participants.....	3b <u>0</u>
c For active participants:	
(1) Non-vested benefits.....	3c(1) <u>0</u>
(2) Vested benefits.....	3c(2) <u>0</u>
(3) Total active	3c(3) <u>6</u>
d Total	3d <u>6</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)	☐
a Funding target disregarding prescribed at-risk assumptions	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate	5 <u>6.91</u> %
6 Target normal cost.....	6 <u>108213</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>07/15/2013</u>
Signature of actuary		Date
<u>CLINT A. BLANKENSHIP, EA, MSPA</u>		<u>11-06679</u>
Type or print name of actuary		Most recent enrollment number
<u>MCCLOUD & NICHOLS, INC.</u>		<u>816-792-3838</u>
Firm name		Telephone number (including area code)
<u>205 W. KANSAS</u> <u>LIBERTY, MO 64068</u>		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of _____%	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b Interest on (a) using prior year's effective interest rate of _____% except as otherwise provided (see instructions)		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III Funding Percentages			
14	Funding target attainment percentage	14	100.00 %
15	Adjusted funding target attainment percentage	15	124.63 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	0.00 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
06/13/2013	138978	0			
			Totals ►	18(b)	138978 18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	134868
20 Quarterly contributions and liquidity shortfalls:		
a Did the plan have a "funding shortfall" for the prior year?	☐ Yes ☒ No	
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☐ No	
c If line 20a is "Yes," see instructions and complete the following table as applicable:		

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54%	2nd segment: 6.85%	3rd segment: 7.52 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 0
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions) ☒ Prescribed - combined ☐ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	108213	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33	0	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)...	34	108213	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....			
36 Additional cash requirement (line 34 minus line 35)	36	108213	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	134868	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	26655	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years.....	40		

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

Schedule SB, Part V

Statement of Actuarial Assumptions/Methods

Stingray Optics LLC Cash Balance Pension Plan and Trust

75-3197332 / 002

For the plan year 1/1/2012 through 12/31/2012

Valuation Date: 12/31/2012

Funding Method: As prescribed in IRC Section 430
Age - Eligibility age at last birthday and other ages at last birthday

Retrospective Compensation - Current compensation

Form of Payment - Assumed form of payment for funding is lump sum which is the Hypothetical Account Balance. Funding Target for lump sum is the current Hypothetical Account Balance projected to the assumed retirement date using the Interest Credit Rate discounted using appropriate segment rate. Lump sum on plan actuarial equivalence rates will not exceed 415 maximum allowable distribution, which is the lesser amount computed using a) 5.5% interest and the Applicable Mortality Table or b) plan actuarial equivalence interest and mortality

Interest Rates -

Segment rates for the Valuation Date as permitted under IRC 430(h)(2)(C)

Segment #	Year	Rate %
Segment 1	0 - 5	1.66
Segment 2	6 - 20	4.47
Segment 3	> 20	5.52

Segment rates as of September 30, 2011 As permitted under IRC 430(h)(2)(C)(iv)(II)

Segment #	Year	Rate %
Segment 1	0 - 5	5.54
Segment 2	6 - 20	6.85
Segment 3	> 20	7.52

Pre-Retirement - Mortality Table - None
Turnover/Disability - None
Salary Scale - None
Interest Credit Rate - 5.00
Expense Load - None
Ancillary Ben Load - None

Post-Retirement - Mortality Table - 12C - 2012 Funding Target - Combined - IRC 430(h)(3)(A)
Cost of Living - None

Asset Valuation Method: Fair market value of assets adjusted for contributions under IRC 430(g)(4)

Discrimination Test Assumptions:

HCE Determination - Based on all employees

Otherwise Excludable - Otherwise Excludable HCEs are included with the Not Otherwise Excludable employees

410(b)/401(a)(4) Testing:

Pre-Retirement - Interest - 8.5%

Post-Retirement - Interest - 8.5%

Mortality Table - I83F - 1983 Individual Annuity (female)

Permissively Aggregated Plans - Tested as a Single Plan

Compensation - Use current compensation to calculate the benefit accrual rate (annual method)

Testing Age - Normal retirement age or attained age, if older

Normal Form for MVAR - Joint with 50% Survivor Benefits

Schedule SB, Part V

Summary of Plan Provisions

Stingray Optics LLC Cash Balance Pension Plan and Trust

75-3197332 / 002

For the plan year 1/1/2012 through 12/31/2012

<u>Employer:</u>	Stingray Optics LLC		
Type of Entity -	Limited Liability Company (LLC)		
EIN: 75-3197332	TIN:	Plan #: 002	
<u>Dates:</u>	Effective - 1/1/2012	Year end - 12/31/2012	Valuation - 12/31/2012
	Top Heavy Years - 2012		
<u>Eligibility:</u>	All employees excluding non-resident aliens, members of an excluded class and union		
	Minimum age - 21 Months of service - 12		
Hours Required for -	Eligibility - 1000	Benefit accrual - 1000	Vesting - 1000
Plan Entry -	First day of 1st or 7th month of plan year on or next following eligibility satisfaction		
<u>Retirement:</u>	Normal - First of month coincident with or next following attainment of age 62 and completion of 5 years of participation		
	Early - Not provided		
<u>Average Compensation:</u>	Current compensation		
Top Heavy Minimum Benefit -	Highest 5 consecutive top heavy years of participation		
<u>Plan Benefits:</u>	Retirement - Actuarial equivalent of the hypothetical account balance derived from annual Pay Credits and Interest Credits.		
Pay Credits -	<u>Classification</u>	<u>Pay Credit Formula</u>	
	A	51.3% of compensation /HCE - HCE- 5% Owner	
	B	2.5% of compensation /HCE - HCE- Due to Attribution	
	C	6% of compensation /HCE - HCE- Due to Comp - Troy Palmer	
	D	/HCE - HCE- Due to Comp - Not in Other HCE Groups	
	E	3.5% of compensation /HCE - HCEs	
	F	2.5% of compensation - Elig Part not in Prior Groups	
Accrued Benefit -	Hypothetical Account Balance		
	Minimum Benefit - None		
	Maximum Benefit - None		
	Maximum allowable distribution is lump sum equivalent of normal form not to exceed 415 maximum allowable distribution, which is the lesser amount computed using a) 5.5% interest and the Applicable Mortality Table or b) plan actuarial equivalence interest and mortality		
Death Benefit -	Present Value of Accrued Benefit		
<u>Top Heavy Minimum:</u>	Provided in another plan		
<u>IRS Limitations:</u>	415 Limits -	Percent: 100	Dollar: \$200,000
	Maximum 401(a)(17) compensation - \$250,000		
<u>Normal Form:</u>	Life Annuity		
<u>Optional Forms:</u>	Lump Sum		
	Annuity Guaranteed for 0 Years		
	Joint with 50%, 66.67%, 75% or 100% Survivor Benefit		
<u>Vesting Schedule:</u>	100% vested in 3 years.		
	Service is calculated using all years of service except years prior to plan effective date and age 18		
<u>Present Value of Accrued Benefit:</u>	Based on the Hypothetical Account Balance.		

Schedule SB, Part V

Summary of Plan Provisions

Stingray Optics LLC Cash Balance Pension Plan and Trust

75-3197332 / 002

For the plan year 1/1/2012 through 12/31/2012

Actuarial Equivalence:

Pre-Retirement -	Interest -	5%
	Mortality Table -	None
Post-Retirement -	Interest -	5%
	Mortality Table -	12E - 2012 Applicable Mortality Table for 417(e) (unisex)

Schedule SB, line 26 -
Schedule of Active Participant Data
Stingray Optics LLC Cash Balance Pension Plan and Trust
75-3197332/002
For the plan year 1/1/2012 through 12/31/2012

Years of Credited Service

Attained Age	Under 1 Nb.	1 to 4 Nb.	5 to 9 Nb.	10 to 14 Nb.	15 to 19 Nb.	20 to 24 Nb.	25 to 29 Nb.	30 to 34 Nb.	35 to 39 Nb.	40 & up Nb.
Under 25										
25 to 29		1								
30 to 34										
35 to 39		1								
40 to 44		1								
45 to 49		2								
50 to 54										
55 to 59										
60 to 64										
65 to 69										
70 & up		1								

**Schedule SB, line 22 -
Description of Weighted Average Retirement Age**

Stingray Optics LLC Cash Balance Pension Plan and Trust

75-3197332 / 002

For the plan year 1/1/2012 through 12/31/2012

The age reported is the average of the assumed retirement ages for all active participants as of the valuation date rounded to the nearest whole age. For an active late retiree, the assumed retirement age may be later than the Plan's normal retirement age. Each participant's rate of retirement is assumed to be 100% of his/her assumed retirement age.

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning **01/01/2012** and ending **12/31/2012**

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan Stingray Optics LLC Cash Balance Pension Plan and Trust	B Three-digit plan number (PN) ▶ 002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Stingray Optics LLC	D Employer Identification Number (EIN) 75-3197332
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I Basic Information			
1 Enter the valuation date: Month <u>12</u> Day <u>31</u> Year <u>2012</u>			
2 Assets:			
a Market value		2a	0
b Actuarial value		2b	0
3 Funding target/participant count breakdown		(1) Number of participants (2) Funding Target	
a For retired participants and beneficiaries receiving payment		3a	0
b For terminated vested participants		3b	0
c For active participants:			
(1) Non-vested benefits		3c(1)	0
(2) Vested benefits		3c(2)	0
(3) Total active		3c(3)	6
d Total		3d	6
4 If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐			
a Funding target disregarding prescribed at-risk assumptions		4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor		4b	
5 Effective interest rate		5	6.91 %
6 Target normal cost		6	108,213

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		07/15/2013
Signature of actuary		Date
Clint A. Blankenship, EA, MSPA		11-06679
Type or print name of actuary		Most recent enrollment number
McCloud & Nichols, Inc.		(816) 792-3838
Firm name		Telephone number (including area code)
205 W. Kansas		
US Liberty MO 64068		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	0
10 Interest on line 9 using prior year's actual return of <u>0.00</u> %	0	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b Interest on (a) using prior year's effective interest rate of <u>0.00</u> % except as otherwise provided (see instructions)		0
c Total available at beginning of current plan year to add to prefunding balance ..		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d - line 12)	0	0

Part III Funding Percentages

14 Funding target attainment percentage	14	100.00 %
15 Adjusted funding target attainment percentage	15	124.63 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	0.00 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	0.00 %

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
06/13/2013	138,978				
Totals ▶			18(b)	138,978	18(c) 0

19 Discounted employer contributions -- see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contribution from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date ..	19c	134,868

20 Quarterly contributions and liquidity shortfalls:**a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No**b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No**c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used To Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54 %	2nd segment: 6.85 %	3rd segment: 7.52 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 0
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions)	☒ Prescribed - combined ☐ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contribution for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6).	31a	108,213	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:			
a Net shortfall amortization installment	Outstanding Balance	Installment	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33	0	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	34	108,213	
	Carryover balance	Prefunding Balance	Total balance
35 Balances elected for use to offset funding requirement			
36 Additional cash requirement (line 34 minus line 35)	36	108,213	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	134,868	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	26,655	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contribution for all years	40		

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		