## FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  Xiao Deming  (Last) (First) (Middle)				M [ N	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  X Officer (give title below) below)				Owner (specify
79 GREAT OAKS BLVD					05/04/2015								Pres. of MPS Asia Operations				
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				. 4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicatine)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person											son	
(- 3)			e I - Non-Deriv	/ative	e Seci	urities	Acqu	iired	d, D	isposed c	of, or I	Benefic	cially	Own	ed		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	ear) i	2A. Deemed Execution Date, if any (Month/Day/Year		3. Transaction Code (Instr.			4. Securities Acquired (A			or 5. A and 5) Secu Ben Own			6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
							Code	e	v	Amount	(A) or (D)	Price	²rice		owing orted saction(s) or: 3 and 4)	(Instr. 4)	(Instr. 4)
Common	Stock		05/04/201	5			<b>S</b> <sup>(1</sup>	1)		2,064	D	\$52.7	749 <sup>(2)</sup>	2	61,757	D	
Common	Stock		05/04/201	5			<b>S</b> (3	3)		353	D	\$52	2.7	2	61,404	D	
Common	Stock		05/05/201	5			<b>S</b> (3	3)		814	D	\$52	2.54	2	60,590	D	
Common	Stock		05/05/201	5			S <sup>(1</sup>	1)		730	D	\$52	2.54	2	59,860	D	
Common	Stock		05/06/201	5			<b>S</b> (3	3)		1,196	D	\$51.3	3586	2	58,664	D	
Common Stock 05/06			05/06/201	5		<b>S</b> (3	3)		2,181	,181 D \$51.		3586	586 256,483		D		
Common Stock 05/		05/04/201	5		S <sup>(3</sup>	3)		113	D	\$52	\$52.7		1,667	I	by Spouse		
		Та	ble II - Derivat (e.g., p							posed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any		saction e (Instr.	5. Numl of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3	ive (Miles ed	Expiration ve (Month/Da					of Deri Secu	drivative Scurity Bstr. 5) CF	9. Number of derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	e V	(A) (I		)ate Exerci	isabl	Expiration e Date	Title	Amour or Number of Shares	er				

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$52.62 to \$52.93. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming Xiao

05/06/2015

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.