FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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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) 79 GREAT OAKS BLVD (Street) SAN JOSE CA 95119					MC [MI 3. Da 08/0	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 08/02/2013 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Check	Pres. of MPS Asia Operations Individual or Joint/Group Filing (Check Application)			Owner (specify) ns Applicable
(City)	(Sta	ate) (Z	ľip)												Person			
		Tabl	eI-N	Non-Deriva	ative	Secu	ırities	s Ac	quire	d, D	isposed o	f, or E	Benefic	ially	Owne	ed		
Date				. Transaction ∂ate Month/Day/Yea	Executio ar) if any				3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			nd 5) Secu		ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								c	ode	v	Amount	(A) or (D)	Price		Repo Trans		(msu. 4)	(111501.4)
Common	Stock		08/02/2013					S ⁽¹⁾		2,035	D	\$26.2097(2)		8	2,136	D		
Common	08/05/2013	13				S ⁽¹⁾		277	D	\$26.03	26.0305(3)		31,859	D				
Common Stock 08				08/06/2013	/2013				S ⁽¹⁾		794	D	\$26.2004		8	1,065	D	
Common Stock				08/06/2013					S ⁽¹⁾		248	D	\$26.20	006(4)	11,785		I	by Spouse
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execuif any		4. Transa Code (8)		r. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration (Month/Da		y/Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amour or Numbe of Title Shares		Secu (Inst	vative irity	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)

Explanation of Responses:

- $1. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$
- 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 \$26.2097 to \$26.21. 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. 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 \$26,0300 to \$26,0305. 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.
- 4. 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 \$26.20 to \$26.2006. 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.

By: Saria Tseng For: Deming Xiao 08/0

** Signature of Reporting Person

08/06/2013

Date

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

- * 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.