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 ar Xiao D (Last) 79 GREA	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 06/11/2013									(Check	Pres. of MPS Asia Operations				owner (specify				
(Street) SAN JOS (City)			5119 <u>'</u> ip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Form	al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					Year) i	xecu f any	Deemed ocution Date, ny onth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (AD Disposed Of (D) (Instr. 35)				Secur	ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) (D)	or Pri	ce	Repo Trans		(111301.4)		(111301. 4)
Common Stock 06/2					013				S ⁽¹⁾		144	D	\$2	4.719	1	2,194	I		by Spouse
Common Stock 06/11					013				S ⁽¹⁾		8	D	\$	24.72	12,186		I		by Spouse
Common Stock															1	14,229	D		
	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)	Execu	eemed ition Date,	4. Transac Code (Ir 8)	saction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)						7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe		8. F of Der Sec (Ins	Price ivative surity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct or Indi (I) (Ins 4)	D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

 $1. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$

By: Meera Rao For: Deming <u>06/13/2013</u> Xiao

** Signature of Reporting Person 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.