FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	VAL							
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

Name and Address of Reporting Person* Xiao Deming						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 07/08/2013										X	belov	er (give title v) s. of MPS Asia		below)			
(Street) SAN JOS (City)	N JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tabl	e I - N	lon-Deriv	ative \$	Secu	ırities <i>i</i>	Acc	uired,	Dis	posed of	f, or	Ben	eficia	ally	Owne	ed					
1. Title of Security (Instr. 3) 2. Trai Date				2. Transact	ion	2A. D Execu	A. Deemed xecution Date,		3. 4. Securi Transaction Disposed Code (Instr. and 5)			rities Acquired (ed Of (D) (Instr.			(A) or 5. So B		5. Amount of Securities Beneficially Owned		wnership m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	1)	() or ()	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)					
Common Stock 0					2013				S		83(1)	D \$		\$24.	.86	12,033			I	by Spouse		
Common Stock																114,229		D				
		Та	ble II	- Derivat (e.g., pı							sed of, o				y O	wned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	tion Date,	4. Transaction Code (Insti				6. Date E Expiratio (Month/D	n Da		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		3	Secu	vative	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	, E	10. Dwnership Form: Direct (D) or Indirect I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A) (E	D)	Date Exercisal		Expiration Date	Title	or Nu of	nount mber ares	ber							

Explanation of Responses:

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

By: Saria Tseng For: Deming Xiao 07/10/2013

** 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.