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 an	MON	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]										all app	olicable) tor	ng Pe	erson(s) to Issuer  10% Owner  Other (specify					
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 03/16/2011									X	Officer (give title below) Pres. of MPS Asia			below)	
(Street) SAN JOS (City)			5120 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day						Execution Date,			Transaction Disposed Code (Instr. and 5)			rities Acquired ed Of (D) (Instr.			3, 4 Secu Bene Owne		rities F eficially ( ed I		Ownership m: Direct or irect (I) tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	v	Amount		(A) or (D)	Pric	e	Repor Transa	ported insaction(s) str. 3 and 4)		u. 4)	(111501. 4)		
Common Stock 03/16/20						011			A		6,000	(1)	A	\$0		21,573			I	by Spouse
Common										1		150,035		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)	if any	ion Date,	4. Transac Code (Ir 8)			vative rities rired r osed )	6. Date Expiration (Month/D	n Dat	e	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)			of Deri Secu	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
				Code V (A) (E		(D)			xpiration late	or Numb of Title Share										

## Explanation of Responses:

1. 1/16 of the Restricted Stock Units shall vest quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date.

By: Saria Tseng For: Deming Xiao 03/17/2011

\*\* 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.