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	MOI	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck all a Dir	ector		10% C)wner				
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/14/2012										Officer (give title below) VP & General		Other (specify below) Il Counsel	
(Street) SAN JOS (City)	N JOSE CA 95120					4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) <mark>X</mark> Fo Fo	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. Transaction Date (Month/Day/					y/Year)	Execution Date,						rities Acquired (A			Sec Ben Owr	mount of irities eficially ed owing	For (D) Ind	Ownership rm: Direct or irect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount		A) or D)	Price	Rep Trai	orted esaction(s) r. 3 and 4)		str. 4)	(111501. 4)
Common	012			A		25,666	(1)	A	\$ <mark>0</mark>	.0	101,401		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	eemed tion Date, n/Day/Year)	4. Transac Code (II 8)		of Deriv Secur Acqu (A) or Dispo	r osed) . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date Expiration Date			Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivativ Security (Instr. 5)	9. Number derivative securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

1. 1/8 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. Additionally, 25,665 shares of Restricted Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.

> 02/16/2012 Saria Tseng

** Signature of Reporting Person

Date

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

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.

^{*} 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).