FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									(Chec	Relationship of Report Check all applicable) X Director X Officer (give title		10% Owner		Owner				
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/10/2011									belov	,		below	
(Street) SAN JOS (City)	SAN JOSE CA 95120					4. If Amendment, Date of Original Filed (Month/Day/Year)									Form	al or Joint/Group Filing (Check Applicable form filed by One Reporting Person orm filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				2. Transaction Date Month/Day/Ye	Execution (ear) if any		emed on Date, /Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				Securi Benefi Owned	icially d	6. Owner Form: D (D) or Indirect	rect	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price				(Instr. 4)		(Instr. 4)
Common	Stock			02/10/201	1				S		4,644(1)	D	\$15.3	7442	43	32,331	D		
Common Stock															49	08,566	I		By Jointly w/Spouse
Common Stock															13	33,040	I		By S. Hsing 04 Trust
Common Stock														13	133,040			by M Hsing 04 Trust	
	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 ution Date,	4. Transa	5. Number Fransaction of Code (Instr. Derivative		rative rities ired r osed)	6. Dat Expir (Mont		rcisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. For Der Sec (Ins	Price 9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)		Own Forn Direct or In (I) (II 4)	t (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	of Shares						

Explanation of Responses:

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

By: Saria Tseng For: Michael 02/10/2011 Hsing

Date

** Signature of Reporting Person

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.