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 an	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MPWR								<u>1C</u>		all app			Owner				
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 02/18/2011									belo	,	oth belo eral Counse	′
(Street) SAN JOS (City)	SAN JOSE CA 95120					4. If Amendment, Date of Original Filed (Month/Day/Year)									ividual 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. Transaction Date (Month/Day/Ye					ear) Ex	Execution Date,		1	Transaction D Code (Instr. 5)			Securities Acquired (A) sposed Of (D) (Instr. 3,			Secui	ficially d	6. Ownershi Form: Direc (D) or Indirect (I) (Instr. 4)	
						Code	v	Amount	(A) or (D)	Price		Repo Trans		(,	(
Common	11	1			J	V	1,460(1)	A	\$13	13.1325		35,542	D					
Common Stock 02/18/201					1			S		1,460(2)	D	\$	\$16		34,082	D		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Security (Instr. 3) Conversion or Exercise Price of Derivative Security Derivative Security Date (Month/Day/Year) (Month/Day/Year)			4. Transac Code (II 8)		5. Nu of Deriv Securi Acqu (A) or Disport of (D) (Instrand 5	ative rities ired sed	Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of Title Shares		of Der Sec (Ins	rice ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Beneficial Ownership		

Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- 2. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.

<u>Saria Tseng</u> <u>03/09/2011</u>

** Signature of Reporting Person D

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.