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 and Address of Reporting Person* Ueunten Paul				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									Check	all appl Direct	icable)	g Person(s) to Is 10% O		wner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD			3. Date of Earliest Transaction (Month/Day/Year) 01/10/2012									X	below)	below) n Engineering		. ,		
(Street) SAN JOSE CA 95120			4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indivi ine) X	ridual or Joint/Group Filing (Check Applicabl Form filed by One Reporting Person Form filed by More than One Reporting Person				on		
(Oity)	(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y			action	2A. Exe	2A. Deemed Execution Date,		ate,	3. Transac Code (Ir 8)	tion	4. Securities Disposed O	ed (A) or	r 5. Am and 5) Secur		ount of ities icially	6. Ownership Form: Direct (D) or Indirect (I)	ect)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)
Common Stock		01/10	01/10/2012					M ⁽¹⁾		14,000	A	\$1.2	1.2		6,124	D			
Common Stock 01/10/2		/2012	2				S ⁽¹⁾	Ш	14,000	D	\$15.59	951 ⁽²⁾ 12		2,124	D				
Common Stock														15	3,556	I		Ueunten Trust I	
Common Stock															11	113,900			Ueunten Trust II
Common Stock															20	5,000	I		Ueunten Trust III
Common Stock														20	5,000	I		Ueunten Trust IV	
		Ta	able II - De								posed of, converti				wned				
1. Title of Derivative Security (Instr. 3)	Title of 2. 3. Transaction 3A. Deemed Execution Date Execution Date if any		ate, Ti	ransact	nsaction de (Instr.		lumber ivative urities juired or posed D) tr. 3, 4	6. Date Expira (Mont	e Exer	cisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. P of Der Sec	ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4)	: t (D) lirect	Beneficial Ownership	
				c	ode	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares						
Incentive Stock Option (right to buy)	\$1.2	01/10/2012			M ⁽¹⁾			14,000	09/10/	/2004	09/11/2013	Commor Stock	14,000		\$0.0	0.0	1)	

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$15.52 to \$15.6225. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Paul Ueunten

01/10/2012

** 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.