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 and Address of Reporting Person* Ueunten Paul (Last) (First) (Middle) 79 GREAT OAKS BLVD					<u>N</u> [2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 01/10/2013									(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specif below) below) Sr. V.P. Design Engineering			Owner (specify)
(Street) SAN JOS (City)	AN JOSE CA 95119				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)										ndividual or Joint/Group Filing (Check Applicable e) X 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 if any		utio y			3. Transaction Code (Instr. 8)				Acquired (A) or (D) (Instr. 3, 4 an		Secu Bene Own	ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
									G	Code	v	Amount	(A) or (D)	Price		Repo Tran	owing orted saction(s) r. 3 and 4)	(Instr. 4)	(Instr. 4)
Common	Stock			01/10/2013	3					S ⁽¹⁾		9,279	D	\$22.9	9445	2) 1	11,189	D	
Common	Stock															1	53,556	I	Ueunten Trust I
Common	Stock															1	13,900	I	Ueunten Trust II
Common Stock																	26,000	I	Ueunten Trust III
Common	Stock																26,000	I	Ueunten Trust IV
		Та	ble	II - Derivat (e.g., pu								posed of, convertil				Owned	l		
1. Title of Derivative Security (Instr. 3)	e of 2. 3. Transaction 3A. Deemed Execution Date, if you can be seen and the second of		8)	ransaction of Derivativ			ative ities red sed 3, 4	Expir (Mon	ration	y/Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou		or. Or. (I	8. Price of derivative Security (Instr. 5) Reported Transactio (Instr. 4)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

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 \$22.85 to \$23.00. 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

01/11/2013

** 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.