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Docket No.: SEC.1762

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1. Name of conveying party(ies):  
**SEL, Jong-Sun**                      **LEE, Jang-Sik**  
**CHOI, Jung-Dal**                    **KIM, Vie-Na**  
**KANG, Chang-Seok**  
**LEE, Chang-Hyun**

Additional names(s) of conveying party(ies)     Yes  No

1-11-07

2. Name and address of receiving party(ies):  
Name: **Samsung Electronics Co., Ltd.**  
Address: **416, Maetan-dong, Yeongtong-gu,**

City: **Suwon-si**                      State/Prov.: **Gyeonggi-do**  
Country: **Republic of Korea**                      ZIP: \_\_\_\_\_

Additional name(s) & address(es)                       Yes  No

3. Nature of conveyance:  
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 Security Agreement                       Change of Name  
 Other \_\_\_\_\_

Execution Date: **September 29, 2006 & December 27, 2006**

4. Application number(s) or patent numbers(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.	Filing date	B. Patent No.(s)
11/507,511	08/22/2006	

01/16/2007 DBYRNE 00000033 11507511                      Additional numbers                       Yes  No

01 FC:8021  
5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **ADAM C. VOLENTINE**  
Registration No. **33289**  
Address: **VOLENTINE & WHITT, PLLC**  
**11951 FREEDOM DRIVE, SUITE 1260**

City: **RESTON**                      State/Prov.: **VA**  
Country: **USA**                      ZIP: **20190**

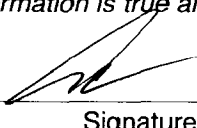
6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**  
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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

**ADAM C. VOLENTINE**                                            **JAN. 11, 2007**  
Name of Person Signing                      Signature                      Date

Total number of pages including cover sheet, attachments, and document: **3**

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PATENT  
REEL: 018791 FRAME: 0667

VOLENTINE FRANCO & WHITT, P.L.L.C. (972004)

ATTORNEY DOCKET NO. SEC 1762

### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert  
Name(s) of  
Inventor(s)

- |                           |                        |
|---------------------------|------------------------|
| 1. <u>Jong-Sun SEL</u>    | 5. <u>Jang-Sik LEE</u> |
| 2. <u>Jung-Dal CHOI</u>   | 6. <u>Vie-Na KIM</u>   |
| 3. <u>Chang-Seok KANG</u> | 7. _____               |
| 4. <u>Chang-Hyun LEE</u>  | 8. _____               |

Insert  
Name(s) of  
Assignee(s) &

the undersigned hereby sell(s) and assign(s) to  
SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, Republic of Korea

Address(es)

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

Title of  
Invention

CELL ARRAY OF SEMICONDUCTOR MEMORY DEVICE AND METHOD OF  
FORMING THE SAME

Date of  
Signing of  
Application

for which an application for patent in the United States of America has been executed by  
the undersigned on \_\_\_\_\_

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

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The undersigned hereby grant(s) the practitioners associated with the CUSTOMER NUMBER 20027 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>29. Sep. 2006</u>	Signature of Inventor	<u>[Signature]</u> Jong-Sun OHL
Date <u>Sept. 29, 2006</u>	Signature of Inventor	<u>Jungdal Choi</u> Jung-Dal CHOI
Date <u>29. Sep. 2006</u>	Signature of Inventor	<u>Chang Seok Kang</u> Chang-Seok KANG
Date <u>29. Sep. 2006</u>	Signature of Inventor	<u>Chang Hyun Lee</u> Chang-Hyun LEE
Date <u>29. SEP. 2006</u>	Signature of Inventor	<u>Jang-Gik Lee</u> Jang-Gik LEE
Date <u>27. Dec. 2006</u>	Signature of Inventor	<u>Vie-Na Kim</u> Vie-Na KIM
Date _____	Signature of Inventor	_____
Date _____	Signature of Inventor	_____

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even if it has not been witnessed.)

Witness \_\_\_\_\_  
Witness \_\_\_\_\_

Applicant Reference No. IS14626-US