# EXHIBIT 4 FILED UNDER SEAL

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| 14       | CO., LTD., SAMSUNG ELECTRONICS<br>AMERICA, INC. and SAMSUNG  |   |  |
| 15       | TELECOMMUNICATIONS AMERICA, LLC  |   |  |
| 16       | UNITED STATES DISTRICT COURT   |   |  |
| 17       | NORTHERN DISTRICT OF CALIFORNIA, SAN JOSE DIVISION   |   |  |
| 18       |  |   |  |
| 19       | APPLE INC., a California corporation,  | CASE NO. 11-cv-01846-LHK                                  |  |
| 20       | Plaintiff,   | SAMSUNG'S SUPPLEMENTAL<br>OBJECTIONS AND RESPONSES TO     |  |
| 21       | VS.  | APPLE'S SEVENTH SET OF<br>INTERROGATORIES (NO. 16)        |  |
| 22       | SAMSUNG ELECTRONICS CO., LTD., a Korean business entity; SAMSUNG   | HIGHLY CONFIDENTIAL –                                     |  |
| 23       | ELECTRONICS AMERICA, INC., a New<br>York corporation; SAMSUNG  | <u>ATTORNEYS' EYES ONLY</u><br>UNDER THE PROTECTIVE ORDER |  |
| 24       | TELECOMMUNICATIONS AMERICA,<br>LLC, a Delaware limited liability company,  |   |  |
| 25<br>26 | Defendant.   |   |  |
| 26<br>27 |  | l   |  |
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| _0       |  |   |  |
|          | Case No. 11-cv-01846-LHK<br>SAMSUNG'S SUPPL. OBJECTIONS AND RESPONSES TO APPLE'S 7TH SET OF INTERROGATORIES (NO. 16) |   |  |
|          |  |   |  |

Pursuant to Federal Rules of Civil Procedure 26 and 33, Defendants Samsung Electronics
 Co. Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC
 (collectively, "Samsung") respond to Plaintiff Apple Inc.'s ("Apple") Seventh Set of
 Interrogatories (No. 16) as follows:

#### **GENERAL STATEMENT**

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6 The following responses are based on discovery available as of the date hereof. Discovery
7 is continuing and ongoing, and these responses are subject to change accordingly. It is
8 anticipated that further discovery, independent investigation and analysis may lead to the
9 discovery of additional information or documents, supply additional facts and add meaning to
10 known facts, as well as establish entirely new factual conclusions and legal contentions, all of
11 which may lead to additions to, changes to or variations from the responses set forth herein.

12 In addition, the following responses are given without prejudice to Samsung's right to 13 produce or rely on subsequently discovered information, facts or documents. Samsung accordingly reserves the right to change the responses herein and/or produce or rely on 14 15 subsequently discovered documents as additional facts are ascertained, analysis is conducted, legal 16 research is completed and contentions are made. The responses herein are made in a good faith 17 effort to comply with the provisions of Rules 26 and 33 of the Federal Rules of Civil Procedure, 18 and to supply such responsive information as exists and is presently within Samsung's possession, 19 custody or control, but are in no way to be deemed to be to the prejudice of Samsung in relation to 20 further discovery, research and analysis.

An answer to an interrogatory shall not be deemed a waiver of any applicable general or specific objection to an interrogatory. In responding to the interrogatories, Samsung does not waive any objections that may be applicable to the use, for any purpose, of any information or documents provided in response, or the admissibility, relevance, or materiality of any such information or documents to any issue in this case.

Samsung's responses to these interrogatories do not constitute admissions relative to the existence of any documents or information, to the relevance or admissibility of any documents or information, or to the truth or accuracy of any statement or characterization contained in Apple's

requests. All objections as to relevance, authenticity, or admissibility of any document are
 expressly reserved.

3 Samsung expressly incorporates this General Statement and the following General
4 Objections as though set forth fully in response to each of the following individual interrogatories
5 and, to the extent that they are not raised in any particular response, Samsung does not waive those
6 objections.

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#### **GENERAL OBJECTIONS**

8 1. Samsung objects to the "Definitions" and "Instructions" contained in Apple's
9 Seventh Set of Special Interrogatories to the extent they are inconsistent with the Federal Rules of
10 Civil Procedure.

2. Samsung objects to Apple's Definition of "Samsung," "You," "Your," and 11 "Defendants" as overly broad to the extent it requires Samsung to pursue information from 12 13 individuals no longer employed by Samsung whose data is not currently in the possession of Samsung. Samsung further objects to Apple's Definition of "Samsung," "You," "Your," and 14 "Defendants" as overly broad, vague, and ambiguous to the extent it does not define "affiliates," 15 16 and also to the extent that it requires Samsung to potentially seek information from thousands of 17 people. Samsung will respond to interrogatories based on a reasonable inquiry of individuals 18 expected to possess the requested information.

19 3. Samsung objects to Apple's definition of "Apple" to as overly broad, vague, and
20 ambiguous.

4. Samsung objects to the definition of "Products at Issue" as vague and overbroad to
the extent it includes "similar products, and any products that Apple accuses of infringing its
intellectual property in this litigation" that have not been identified by Apple in its infringement
contentions. Samsung further objects to the definition of "Products at Issue" to the extent it
includes products that are not sold and/or have never been sold in the United States.

5. Samsung objects to the definition of "Hardware Design" as vague and ambiguous.
6. Samsung objects to the definition of "Graphical User Interface Design" as vague
and ambiguous.

7. Samsung objects to the definitions of "Original iPhone Trade Dress," "iPhone 3G
 Trade Dress," "iPhone 4 Trade Dress," "iPhone Trade Dress," "iPad Trade Dress," "iPad 2 Trade
 Dress," and "Apple Trademarks and Trade Dress" to the extent they imply that any aspect of the
 Apple products' design constitutes an element of its trade dress.

5 8. Samsung objects to the definition of "Accused Feature" to the extent it misstates or
6 mischaracterizes the Patents at Issue.

9. Samsung objects to the definition of "Source Code" as vague, ambiguous,
overbroad and overly burdensome. Samsung further objects to the definition to the extent it
seeks information regarding unreleased prototypes that are not at issue in this lawsuit. Samsung
also objects to the definition to the extent it seeks multiple and discrete types of information and
has multiple subparts.

12 10. Samsung objects to the definitions of "Concerning" and/or "Relating," and each
13 and every interrogatory that uses the term "Concerning" or "Relating," as overly broad, vague and
14 ambiguous.

15 11. Samsung objects to the definition of "Third Party" or "Third Parties" as overly16 broad.

17 12. Samsung objects to these interrogatories as vague and ambiguous to the extent
18 they include terms that are undefined. Samsung in its responses will identify any terms it
19 believes are vague and ambiguous and will assume a reasonable meaning for each such term.

20 13. Samsung objects generally to each interrogatory to the extent that it seeks to elicit 21 information subject to and protected by the attorney-client privilege, the attorney work-product 22 doctrine, the joint defense privilege, the common interest doctrine, and/or any other applicable 23 privilege or immunity. Any inadvertent disclosure of such information shall not be deemed a 24 waiver of the attorney-client privilege, the work product doctrine, or any other applicable 25 privilege or immunity recognized by statute or case law. Samsung will exchange with Apple a log of withheld documents at a time agreed to by counsel for the parties. Samsung also will not log 26 27 privileged documents that were created on or after April 15, 2011.

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14. Samsung objects generally to the interrogatories to the extent they seek

1 information from outside a reasonable time period or from a point other than a reasonable time.

2 15. Samsung objects to these interrogatories to the extent they seek to compel
3 Samsung to generate or create information and/or documents that do not already exist.

4 16. Samsung objects generally to the interrogatories to the extent that they prematurely
5 call for contentions, identification of prior art, or identification of witnesses at this stage of the
6 litigation.

7 17. Samsung objects to each interrogatory to the extent it is duplicative or cumulative
8 of another interrogatory.

9 18. Samsung objects to each interrogatory to the extent it is compound and comprises
10 discrete subparts resulting in separate interrogatories.

11 19. Samsung expressly reserves the right to respond to any or all of the interrogatories
12 by specifying documents wherein the responsive information may be ascertained pursuant to Rule
13 33(d) of the Federal Rules of Civil Procedure.

14 20. Samsung objects generally to the interrogatories to the extent they seek
15 confidential proprietary or trade secret information of third parties. Samsung will endeavor to
16 work with third parties to obtain their consent, if necessary, before identifying or producing such
17 information and/or documents.

18 21. Samsung objects generally to the interrogatories on the grounds that they are
19 overly broad, unduly burdensome, and neither relevant nor reasonably calculated to lead to the
20 discovery of admissible evidence.

21 22. Samsung objects to the interrogatories on the ground that they are overly broad,
22 unduly burdensome and oppressive to the extent they purport to require Samsung to search its
23 facilities and inquire of its employees other than those facilities and employees that would
24 reasonably be expected to have responsive information. Samsung's responses are based upon (1)
25 a reasonable search and investigation of facilities and files that could reasonably be expected to
26 contain responsive information, and (2) inquiries of Samsung's employees and/or representatives
27 who could reasonably be expected to possess responsive information.

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23. Samsung objects to the interrogatories on the grounds that they seek information

already in the possession of Apple, publicly available, or as readily available to Apple as it is to
 Samsung.

3 24. Samsung objects to each interrogatory to the extent that it seeks information before
4 Samsung is required to disclose such information in accordance with any applicable law, such as
5 the Northern District of California Patent Local Rules.

6 25. Samsung objects to the interrogatories on the grounds and to the extent that they
7 seek legal conclusions or call for expert testimony. Samsung's responses should not be
8 construed to provide legal conclusions.

9 Subject to and without waiving the foregoing General Statement and General Objections,
10 Samsung responds as follows:

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### 12 **INTERROGATORY NO. 16**:

Specifically for each Utility Patent at Issue, identify and explain in detail each designaround and/or alleged alternative technology or method that can be used as an alternative to the
patented technology, including but not limited to: (1) a description of the alleged design-around;
(2) a description of when and how the alleged design-around was developed; (3) the identity of
individuals involved in developing the alleged design-around, including their titles and
departments if they are or were Samsung employees; and (4) dates when the alleged design-around
was incorporated in Samsung's products.

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## 21 SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:

In addition to its General Objections above, which it hereby incorporated by reference,
Samsung objects to this interrogatory on the grounds that it is vague, ambiguous, and overbroad,
and not reasonably calculated to lead to the discovery of admissible evidence. Samsung further
objects to this interrogatory to the extent that it seeks to elicit information subject to and protected
by the attorney-client privilege, the attorney work-product doctrine, the joint defense privilege, the
common interest doctrine, and/or any other applicable privilege or immunity. Samsung further
objects to this interrogatory as premature to the extent it requests information regarding

-6- Case No. 11-cv-01846-LHK SAMSUNG'S SUPPL. OBJECTIONS AND RESPONSES TO APPLE'S 7TH SET OF INTERROGATORIES (NO. 16)

Samsung's position regarding non-infringing alternatives before sufficient discovery has been
 conducted and before the Court has construed the disputed term's in Apple's patents. Samsung
 further objects to this interrogatory to the extent it prematurely calls for expert testimony or
 opinions at this stage of litigation. Samsung will provide such information in accordance with the
 Court's Minute Order and Case Management Order, dated August 25, 2011.

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Subject to the foregoing general and specific objections, Samsung responds as follows:

7 Samsung's products do not infringe the Utility Patents at Issue; therefore, each of
8 Samsung's products are or include features that are non-infringing.

9 Moreover, the techniques disclosed as prior art or prior technologies to the Utility Patents
10 at Issue, including but not limited to those technologies disclosed during the prosecution of the
11 Utility Patents at Issue, are also commercially acceptable non-infringing alternatives to the alleged
12 inventions disclosed in the Utility Patents at Issue.

In addition, without admitting that any of Samsung's products infringe or that any claim
element is present in or practiced by the accused devices, commercially acceptable non-infringing
alternatives for the Utility Patents at Issue include:

'002 Patent: Design arounds or non-infringing alternatives, either known to Samsung or
implemented by Samsung, include functionalities where the icons on the control strip and/or the
control strip itself are not sensitive to user input, where the control strip display is dependent on
the application program being used, where the control strip does not use programming modules,
and/or where the control strip is partially or completely obscured by one or more application
programs.

'891 patent: Design arounds or non-infringing alternatives, either known to Samsung or
implemented by Samsung, include the elimination of the timer causing the disappearance of the
window, using a timer that counts up instead of counting down, allowing a user input (such as a
touch, key or button input) in order to make the window disappear; using a window that is opaque
and not transparent; and/or using non-visual feedback (such as audio feedback) to gauge phone
volume and ringer volume.

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'915 Patent: Design arounds or non-infringing alternatives, either known to Samsung or
implemented by Samsung, include not using event objects, not distinguishing between a single
input point/scroll operation and a two or more input point/gesture operation, utilizing techniques
that remove any association between the view with the event object that invokes the command;
implementing something other than the event object associated with the view to invoke the
scrolling or gesture command, implementing a scrolling method that utilizes more than one finger,
and not stopping a scroll at a predetermined position in relation to the user input.

8 '381 Patent: Design arounds or non-infringing alternatives, either known to Samsung or 9 implemented by Samsung, include using techniques such as blue glow (or edge glow or yellow 10 glow), tilt, partial bounce back, spring back, or no bounce back. The "blue glow" functionality 11 can be used as an alternative to at least one of the accused features. Pursuant to Rule 33(d), 12 Samsung refers to the source code produced by Samsung on January 23, 2012 regarding the blue 13 glow technique. The functionality was incorporated into Samsung's code for the Samsung 14 accused products with the assistance of Wookyun Kho, Kihyung Nam, Dooju Byun, Jaegwan 15 Shin, and Seunghwan Han on or around September 2011.

16 '163 Patent: Design arounds or non-infringing alternatives, either known to Samsung or
17 implemented by Samsung, include not enlarging and translating a web page to substantially center
18 a first box, not expanding the first box so that the width of the first box is substantially the same as
19 the width of the touch screen display, not resizing text in an enlarged first box to meet or exceed a
20 predetermined minimum text size on the touch screen display, and not translating a web page so as
21 to substantially center a second box on the touch screen display while a first box is

enlarged. Additionally, the '163 patent is not infringed when, upon a "second" gesture from the
user, either (1) the structured electronic document returns to its original size; and/or (2) no further
actions are performed. This design eliminates any actions that could be interpreted to "when the
first box is enlarged, detect a second gesture on a second box other than the first box," and/or "in
response to detecting the second gesture, translate the structured electronic document so that the
second box is substantially centered on the touch screen display." Samsung has modified or is
modifying the functionality of its products including its Galaxy Attain 4G, Galaxy Tab 10.1, Epic

4G, Galaxy S II Epic 4G Touch, and Galaxy S II Skyrocket devices. Samsung has or is presently
 preparing to produce the source code for the design around on the source code computer, and will
 produce such source code as soon as possible.

4 '607 Patent: Design arounds or non-infringing alternatives, either known to Samsung or
5 implemented by Samsung, include the use of AMOLED screens which are already incorporated
6 into many of Samsung's products, the use of non-transparent conductors, not using conductive
7 lines, and not using conductors that are transverse, and using a single layer instead of first and
8 second layers.

9 '129 Patent: Design arounds or non-infringing alternatives, either known to Samsung or
10 implemented by Samsung, include the use of AMOLED screens which are already incorporated
11 into many of Samsung's products, the use of conductors that are not on a two-dimensional
12 coordinate system, the use of a second set of conductors having a widths that are not substantially
13 greater than the widths of a first set of conductors, and using a single layer instead first and second
14 layers spatially separated by a dielectric.

Samsung's investigation is ongoing and Samsung will provide further alternatives in its
expert report(s) to be submitted in accordance with the Court's Minute Order and Case
Management Order, dated August 25, 2011, and after Apple has provided a detailed explanation of
the basis for its infringement positions with regard to the Utility Patents at Issue. Samsung also
may supplement this interrogatory after the Court enters an order construing the claims of the
Utility Patents at Issue.

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-9- Case No. 11-cv-01846-LHK SAMSUNG'S SUPPL. OBJECTIONS AND RESPONSES TO APPLE'S 7TH SET OF INTERROGATORIES (NO. 16)

|          |                           | MILLE ALLORIGETS ELES ONLY INFORMATION   |
|----------|---------------------------|--|
| 1        | DATED: March 8, 2012      | Respectfully submitted,  |
| 2        |                           | QUINN EMANUEL URQUHART &   |
| 3        |                           | SULLIVAN, LLP  |
| 4        |                           |  |
| 5        |                           | By /s/ Victoria Maroulis   |
| 6        |                           | Charles K. Verhoeven<br>Kevin P.B. Johnson   |
| 7        |                           | Victoria F. Maroulis<br>Michael T. Zeller  |
| 8        |                           | Attorneys for SAMSUNG ELECTRONICS CO.,<br>LTD., SAMSUNG ELECTRONICS AMERICA,                     |
| 9        |                           | INC. and SAMSUNG<br>TELECOMMUNICATIONS AMERICA, LLC  |
| 10       |                           | TELECOMMUNICATIONS AMERICA, EEC  |
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|          | SAMSUNG'S SUPPL ORIECTION | -10- Case No. 11-cv-01846-LHK<br>IS AND RESPONSES TO APPLE'S 7TH SET OF INTERROGATORIES (NO. 16) |
|          |                           |  |

|  | SUBJECT TO PROTECTIVE ORDER<br>CONTAINS HIGHLY CONFIDENTIAL – ATTORNEYS' EYES ONLY INFORMATION  |  |
|--|---|--|
| 1  | CERTIFICATE OF SERVICE  |  |
| 2  | I hereby certify that on March 8, 2012, I caused SAMSUNG'S SUPPLEMENTAL   |  |
| 3  | OBJECTIONS AND RESPONSES TO APPLE INC.'S 7TH SET OF INTERROGATORIES   |  |
| 4  | (No. 16) to be electronically served on the following via email:  |  |
| 5  | ATTORNEYS FOR APPLE INC.  |  |
| <ul> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> <li>11</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ul> | AppleMoFo@mofo.comWHAppleSamsungNDCalService@wilmerhale.comHAROLD J. MCELHINNYWILLIAM F. LEEhmcelhinny@mofo.comWILMER CUTLER PICKERING HALE ANDmjacobs@mofo.comDORR LLPJENNIFER LEE TAYLOR60 State Streetjtaylor@mofo.comBoston, Massachusetts 02109ALISON M. TUCHERTelephone: (617) 526-6000atucher@mofo.comFacsimile: (617) 526-5000RICHARD S.J. HUNGMARK D. SELWYNJASON R. BARTLETTmark.selwyn@wilmerhale.comMORRISON & FOERSTER LLPVILMER CUTLER PICKERING HALE AND425 Market Street950 Page Mill RoadSan Francisco, California 94105-2482Palo Alto, California 94304Telephone: (415) 268-7000Telephone: (650) 858-6000Facsimile: (415) 268-7522Facsimile: (650) 858-6100I declare under penalty of perjury that the foregoing is true and correct. Executed inRedwood Shores, California on March 8, 2012. |  |
| 19   | /s/ Melissa Chan  |  |
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|  | -11- Case No. 11-cv-01846-LHK<br>SAMSUNG'S SUPPL. OBJECTIONS AND RESPONSES TO APPLE'S 7TH SET OF INTERROGATORIES (NO. 16)   |  |