```
 1  package rolodex;
 2
 3  import javax.swing.*;
 4  import java.awt.*;
 5  import java.awt.event.*;
 6
 7  /****
 8   *
 9   * Class OKChangeButtonListener is attached to the OK button in the change card
10   * dialog.  It is an example of referential transparency of design.  See the
11   * documentation for the <a href="OKAddButtonListener.html">
12   * OKAddButtonListener </a> for discussion of the concept of referential
13   * transparency in an object-oriented design.
14   *
15   */
16
17  public class OKChangeButtonListener implements ActionListener {
18
19      /**
20       * Construct this with the given rolodex model and parent dialog view and
21       * grandparent rolodex view.  Access to the model is for calling its change
22       * function.  Access to the parent dialog is for gathering data to be sent
23       * to Rolodex.change.  Access to the grandparent view is for reporting
24       * input error messages.  See the specs of actionPerformed below for
25       * further discussion.
26       */
27      public OKChangeButtonListener(Rolodex r, RolodexMenuUI rmui,
28              ChangeCardDialog ccd, ConfirmChangeDialog cncd) {
29          this.r = r;
30          this.rmui = rmui;
31          this.ccd = ccd;
32          this.cncd = cncd;
33      }
34
35      /**
36       * Respond to a press of the OK button by displaying the card to be
37       * changed, if any.  If there is no card of the id given by the user,
38       * display an error.
39       */
40      public void actionPerformed(ActionEvent e) {
41
42          Card c = r.find(new Id(ccd.getId()));
43          DeleteInputError die;
44
45          if (c == null) {
46              die = new DeleteInputError();
47              die.setNotThereErrorMessage();
48              rmui.showErrorDialog(die.getNotThereErrorMessage());
49          }
50          else {
51              rmui.showConfirmChangeDialog();
52              cncd.showCardAndSaveId(c, new Id(ccd.getId()));
53          }
54
55      }
56
57      /** The companion model */
58      protected Rolodex r;
59
60      /** The grandparent view */
61      protected RolodexMenuUI rmui;
62
63      /** The parent view */
64      protected ChangeCardDialog ccd;
65
66      /** The sibling view */
67      protected ConfirmChangeDialog cncd;
68
69  }
```